

## Sequence Listing

09/936271  
JC03 Rec'd PCT/PTO 10 SEP 2001

SEQ.ID. NO. 1  
KLK-LI na

1621 tcctctgttg aaccctcctt gaccgtggct ttgcaccgcg atggcaccag  
 tctcacctcc  
 1681 agagctcacc ccagagccct gactccgcgg cagaagccct ggtcccaccc  
 tctgagactg  
 1741 cctctagcca taacccagct cttgaagcct tggcgcc cctgcgtgt  
 aaccccaacc  
 1801 ctaggagcac tggatcccgc ttctcagccc acccccattgc cctgacttc  
 cttccaggag  
 1861 ccctgactac cctgaatccc tgaccaggct cctgcaccgt gatcaccgc  
 cctgggagcc  
 1921 ctaggcctat atcctggacc agccctgaa gctccgatca tgacccctgc  
 accataacc  
 1981 cacccccagg agccctgggt ccgcggccctg ggcccgcccc cagccctgac  
 tcggcccccc  
 2041 aagagtcctg actgctcctg aagccctgac cacgcggccctg ctcggtaacc  
 cctcccaaa  
 2101 gagccctggg cccgcctcctt gagcccggtt ccagccctga ctccgcccc  
 aggagccctg  
 2161 actgctcctg aacctctgac cacgcggccctg ctcggtaagc ccacccccc  
 gaaccctggg  
 2221 cccgcctcctt ggtcccgatc ccattccctga ctccgcccccc aggtatctc  
 gtctctggta  
 2281 gctgcagcca aatcataaac ggcgaggact gcagcccgca ctcgcagcccc  
 tggcaggccgg  
 2341 cactggtcat gaaaaacgaa ttgttctgct cgggcgtcctt ggtgcattcc  
 cagtgggtgc  
 2401 tgcagccgc acactgtttc cagaagttag tgcagaggta gggggagtgg  
 gcagggccctg  
 2461 ggtccgggggg cggggccctaa tattcaggctc atcttgggggt gctcaggggg  
 aaacagcggt  
 2521 gaaggctctg ggaggaggac ggaatgagcc tggatccggg gagcccgag  
 ggaaggccctg  
 2581 ggaggccggga atcttgccttc ggaaggactc agagagccct gacttgaat  
 ctcagccctg  
 2641 tgcgtgatct ctagtgaact aaggcaagtt cttgtccctg aatttttgtg  
 aatgaggatt  
 2701 ttagaccatg gttaaatggc tcttaggggt ttttagcgaag aggggtgggg  
 tggggtagg  
 2761 agatggggat gggaaatgggg ttgaagatga gaatggaggt aaggatgtag  
 ttgccacaaa  
 2821 actgacctgc cctccgtggc ccacagctcc tacaccatcg ggctggggcc  
 gcacagtctt  
 2881 gagggccgacc aagagccagg gagccagatg gtggaggccca gcctctccgt  
 acggccaccca  
 2941 gagtacaaca gacccttgcg cgttaacgc acatgtctca tcaagttgg  
 cgaatccgtg  
 3001 tccgagtctg acaccatccg gagcatcagc attgcttcgc agtgcctac  
 cgcggggaaac  
 3061 tcttcctcg tttctggctg gggctgtcg gcgaacgggt agctcacgg  
 tgggtgtctg  
 3121 ccctcttcaa ggaggtccctc tgcccagtc cgggggctga cccagagctc  
 tgcgtcccg  
 3181 gcagaatgcc taccgtgctg cagtgcgtga acgtgtcggt ggtgtctgag  
 gaggtctgca  
 3241 gtaagctcta tgaccggctg taccacccca gcatgttctg cgccggccgg  
 gggcaagacc  
 3301 agaaggactc ctgcaacgtg agagagggga aagggggaggg caggcgactc  
 agggaaagggt  
 3361 ggagaagggg gagacagaga cacacagggc cgcattggcga gatgcagaga  
 tggagagaca

3421 cacagggaga cagtgacaac tagagagaga aactgagaga aacagagaaa  
 taaacacagg  
 3481 aataaaagaga agcaaaggaa gagagaaaca gaaacagaca tggggaggca  
 gaaacacaca  
 3541 cacatagaaa tgcagttgac cttccaacag catggggcct gagggcggtg  
 acctccaccc  
 3601 aatagaaaat cctcttataa cttttgactc cccaaaaacc tgactagaaa  
 tagcctactg  
 3661 ttgacgggaa gccttaccaa taacataaat agtcgattt tgcatacgtt  
 ttatgcattc  
 3721 atgatataacc tttgttgaa tttttgata tttctaagct acacagttcg  
 tctgtgaatt  
 3781 tttttaaatt gttgcaactc tcctaaaatt tttctgatgt gtttattgaa  
 aaaatccaag  
 3841 tataagtgga cttgtcagt tcaaaccagg gttgtcaag ggtcaactgt  
 gtacccagag  
 3901 gaaaacagt acacagattc atagaggtga aacacgaaga gaaacaggaa  
 aaatcaagac  
 3961 tctacaaaaga ggctggcag ggtggctcat gcctgtaatc ccagcacttt  
 gggagggcag  
 4021 gcaggcagat cacttgaggt aaggagttca agaccagcct ggccaaaatg  
 gtgaaatcct  
 4081 gtctgtacta aaaatacaaa agttagctgg atatggtggc aggcgcctgt  
 aatcccagct  
 4141 acttgggagg ctgaggcagg agaattgctt gaatatgggaa ggcagaggtt  
 gaagttagtt  
 4201 gagatcacac cactatactc cagctgggc aacagagtaa gactctgtct  
 caaaaaaaaaa  
 4261 aaaaaaaaaaag actttacaaa gagatgcaga gacactgaga cagataaaca  
 agccacaaag  
 4321 gagacaaagg agagacagac aaacagaaac agacagacca caagcccaag  
 agaagcagcc  
 4381 agcattcagg acataggaca tcgggaagca ggatttagatg aagtcaggga  
 tctggaatgg  
 4441 gacttccaac agatatgtt ctgggctatg ttgttattga tgatggttct  
 gtctttgtt  
 4501 ctcagtctca ttttagttcct ttctgagccc atatccattt ccacctctct  
 gtgtttgtt  
 4561 ttctgactct ccctctcttca acaacagggt gactctgggg ggccccctgat  
 ctgcaacggg  
 4621 tacttgcagg gccttgcgtc tttcgaaaaa gccccgtgtg gccaagttgg  
 cgtccaggt  
 4681 gtctacacca acctctgcaa attcactgag tggatagaga aaaccgcacca ggccagttaa

SEQ.ID. NO. 2

KLK-L1

SLVSGSCSQIINGEDCSPHSQPWQAALVMENELFCGVLVHPQWVLSAAHCF  
 QNSYTIGLGLHSLEADQEPGSQMVEASLSVRHPEYNRPLLNDLMLIKLDESV  
 SESDTIRSIASQCPTAGNSCLVSGWGLLANGELETGRMPTVLQCVNVSVSE  
 EVCSKLYDPLYHPSMFCAGGGQDQKDSCNGDSGGPLICNGYLQGLVSFGKAP  
 CGQVGVPGVYTNLCKFTEWIEKTVQAS

SEQ.ID. NO. 3

KLK-L1

MATAGNPWGFLGYLILGVAGSLVSGSCSQIINGEDCSPHSQPWQAALVME  
NELFCSGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPEGSQMVEASLSV  
RHPEYNRPLLNDLMLIKLDESVSESDTIRSIASQCPTAGNSCLVSGWGLLA  
NGRMPTVLQCVNVSVVSEEVCSKLYDPLYHPSMFCAGGGQDQKDSCNGDSG  
GPLICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTEWIEKTVQAS

SEQ.ID. NO. 4

Figure 4 Sequence

TGACCCGCTG TACCACCCCA GCATGTTCTG CGCCGGCGGA  
GGGCAAGACC AGAAGGACTC  
CTGCAACGGT GACTCTGGGG GGCCCTGAT CTGCAACGGG  
TACTTGCAGG GCCTTGTGTC  
TTTCGGAAAAA GCCCCGTGTG GCCAAGTTGG CGTGCCAGGT  
GCCTACACCA ACCTCTGCAA  
ATTCACTGAG TGGATAGAGA AAACCGTCCA GGCCAGTTAA  
CTCTGGGGAC TGGGAACCCA  
TGAAATTGAC CCCAAATAC ATCCTGCGGA AGGAATT

SEQ.ID. NO. 5

Table 8 Sequence

TGACCCGCTGTACCACCCCA

SEQ.ID. NO. 6

Table 8 Sequence

GAATTCCCTCCGCAGGATGT

SEQ.ID. NO. 7

Table 8 Sequence

GGTGATCTGCGCCCTGGTCCT

SEQ.ID. NO. 8

Table 8 Sequence

AGGTGTCCGGTGGAGGTGGCA

SEQ.ID. NO. 9

Table 8 Sequence

TGCGCAAGTTCACCCCTCA

SEQ.ID. NO. 10

Table 8 Sequence

CCCTCTCCTTACTTCATCC

SEQ.ID. NO. 11

Table 8 Sequence

ACAATGAGCTGCGTGTGGCT

SEQ.ID. NO. 12

Table 8 Sequence

TCTCCTTAATGTCACGCACGA

SEQ.ID. NO. 13

KLK-L2 na

1 gggcccagag tgaaggcaag agaaggagtt gagagactccc tctgcaaagt  
ggcttgagtc  
61 tcccctgcct aaaatgcagg gagagggagg cagaaagaca gggaaagagga  
aggggtgggg  
121 aagaaagaga gagagagaga gagacagaat aacacaacta cagaaacaca  
gagagaacac  
181 acagagagcc tgggacacag ggacacacag agtcagagag aaaagagaag  
atagagaaag  
241 acacaaatgg agacacagag gtgtaaagaa agagagatta acagagtccc  
agatacacgc  
301 aaaggggcag aagcacagtt ttcagggtgg tgtctatgat catttcttt  
ttttttttt  
361 tttttttttt ttttgagac ggagtctcgc tctgtcgccc aggctggagt  
gcagtggcgg  
421 gatctcggtc cactgcaagc tccgcctccc gggttcacgc cattctcctg  
cctcagcctc  
481 ccaagtagct gggactacag gcgcggccca ctacgcccgg ctaattttt  
tgtattttt  
541 gtagagacgg ggtttcaccc ttttagccgg gatggcctcg atccctgac  
ctcgtgatcc  
601 gccccctcg gcctccaaa gtgctggat tacaggcgtg agccacccgc  
cccgccatg  
661 atcatcttct tgactatgct gatgtgacaa gtacctaaag ccatcagact  
ctaccctta  
721 aatatgcagt ttggccagg caccgtggct catgcctgta attccagcac  
tttgggaggc  
781 agaggtgggt gaatcaccc aggccaggag tttgagacca gcctggccaa  
catggtggaaa  
841 ctctgtctt actaaaaaaaaaaaaaaaaaaaatc agccgggtgt  
cgtggggcac  
901 acctgtataatc ccagctatgc tggaggctga ggcacgagag tcacttgaac  
cctggaggcg

961 gaggttgcag tggccgaga tcacatcacc gccctccagc ctggcgaca  
gagcaagact  
1021 ctgtctcaaa taaataaata aacaaacgaa caagcagttt gttgtacctt  
agtttatatct  
1081 aaaaaaaaaa tgctgtcaac aaatagagca gaagtgaaat aaaggaaaat  
aaatggccca  
1141 agaactctaa ggtatattt acaaattt cagaaccttt aaaaaagaaaa  
gaatcacaga  
1201 ggcatalogaa gacagggagg aacagggaga cagaaacacc tgtggccaa  
ggagaacaaa  
1261 acaaggctcc taagacagac aggaggagag agagagagag tgagtgagag  
acagacagag  
1321 aaaaagacag agagagagag acagagacag agagacagag aggcgagagg  
gatagaaaga  
1381 gagagagggg tggagagaga cacgagatat tgagagagac tcagaaagat  
agccgaggg  
1441 gaaccacaga gagatggaag aagactctga gaaaaaacca gagacaaaga  
tggaaagagg  
1501 agtatcgagg gtgaacagac agtggtgaa tgagcaaaat gcagagaaga  
aagcaagcaa  
1561 tccaggcgcc aagaatagt acccagagtt ggtgagaagc cagatcctta  
aggctgggg  
1621 aggcaggaa gggctggcc tggctccgg agaccctcc ccattctccg  
ggccagggag  
1681 gtagggagtg acattccgga ctgggtgggg ggtctctgg gggtggagat  
agggggagca  
1741 ggaggagcta ttgctaaggc ccgataggca cctcattgcc cggaaatgtg  
ccccagggag  
1801 cagtgggtgg ttataactca ggcccggtgc ccagagccca ggaggaggca  
gtggccagga  
1861 aggcacagggc ctgagaagtc tgccgctgag ctgggagcaa atccccacc  
ccctacctgg  
1921 gggacagggc aagtgagacc tggtgagggt ggctcagcag gcagggaaagg  
agaggtgtct  
1981 gtgcgtcctg cacccacatc tttctctgtc ccctccttgc cctgtctgga  
ggctgctaga  
2041 ctcttatctt ctgaattcta tagtgcctgg gtctcagcgc agtgcgcgt  
gtggcccgatc  
2101 ctgtggttc ctctctacct gggaaataa ggtaggggag ggaggggaag  
tgggttaagg  
2161 gctcccccga tcgcctggc ctcccaaccc tctgacatcc cccatccagg  
tgcagccggc  
2221 atggctacag caagaccccc ctggatgtgg gtgctctgtc ctctgatcac  
agccttgctt  
2281 ctgggggtca caggtAACCA gaactctggg gtgggaggggt tggggattg  
ggaggactgt  
2341 ctctgcggca ctagagcgcc tgtccctgg ggaactgtgt gagcctggc  
atgactccgg  
2401 gaccgggtga atgtgagtct ctgtctgtac ttgtggttgt gcgatcgtat  
gtggccctgt  
2461 gactgccacg gtgtgtgtcg gggaggggaa tgcctttcc catatcaggt  
gactgtgcgg  
2521 caggtggcac tgacccttg aggctgtgt tgggttttg tgattgtgt  
tgcatttaag  
2581 attgtgtgtg gctccacagc tgtgtgggtg aatgcatgta gcactgggg  
tggactgt  
2641 gtgtttggct gtgtgtgggtg acttggcatt gtatatgact gcaggtatct  
gcagttctg  
2701 tccctgaggt cccgggattg cgtgcaacaa aagtggcat caccatggaa  
agctgtgact

2761 gtgtgctgct tgcaggcgat tatgtgattt gggctgagtg tgacgttatg  
gatccccgt  
2821 tttgtgaccg tgtgactacc tgaagctctg tgtaggggtg actgtatgt  
actgtgtgt  
2881 tctgtgtgag gccgtgtaaa tgctactgta tgtgtgatgg tgcagctgt  
tgtctggagt  
2941 ttctgtctct gcctggaggg atagagggtg caggggtagc tatctctggg  
agatgggtgc  
3001 caggtgactg acttgcagtg tgtgcctgtg tgcagaagag tatgtggcag  
tctgaacatc  
3061 tgtgcacaca cggcatctgt gcgtggcaact gagacactgt ggatgagggt  
gtgcgtatccc  
3121 gctaggctgc ccgggagcgt gtgtacctgg agacagagct gtatgttagc  
tgcacctgt  
3181 gaggcaacat gggcggtct gcagaactgc gtgcgtgctt ggctgttact  
gctgttgtgc  
3241 gcgtggttct tggggtgagt tcgtaatga tggtggtgcc agggccatca  
gcaagggtaa  
3301 gaaccaggcc gggcgcggtg gctcacgcct gtaatcccag cccttggga  
ggccgaggca  
3361 ggccgatcac ctgaggtcgg gagatcgagg ccagcctgac caacatggag  
aaccggct  
3421 ctactaaaaa tacaaaaaaat tagctggtgt ggtggcgcgt gcctgtataatc  
ccagctactc  
3481 gggagactgg ggcagaaaaa tcgcttgaac ccgggaggtg gaggttgcgg  
tgagccgaga  
3541 tcgcgccatt gcactccagc ctggcaaca agagcgaaac tccgtctcga  
aagaaaaaaa  
3601 gaaaaaaaaa agggtaagaa ccagtgaatg ggcacgggag gactgatgat  
ggagtggggc  
3661 atgcatgtag tctgttaggtc tgtgtgtgag aggaggagat tgacaggatt  
gagaaggcat  
3721 gtttcatct gagaattcag aaaccttaggc ctgtcttcc cttccatgt  
gccccctaaag  
3781 ctgagccctt cttcctggc cctgcttgc gaaccctagc tccgcccatt  
agctctgacc  
3841 ccacccctt tcctcaacca cgcggctagg ccagactcta gtggaccccg  
cctaaggcca  
3901 caccctttg ggccaggctc cacccttat tctgtggta cttctagaa  
cccccttcaa  
3961 agtcagagct tttttttttt ttttttgga gacagtcttgc ctctcttcc  
caggctggag  
4021 tgcagtggcg tgatctcgcc tcactgcaac ctctgcctcc caggttcaag  
tgattctcg  
4081 gcctccaccc cctgagtagc tgggattaca ggtgcgcgcc accacgcctg  
gctaattttt  
4141 gtgtctttag tagagacagg gtttccatcc gttggccagg ctggctcaa  
actcccaacc  
4201 tcaggtgatc cgcggccatcc ggcctccctt agtgctgggg ttacaggcgt  
gagccacccgc  
4261 ccccaagccca aagtcaagagc tctttatagg agactctaac atgtaaccct  
gaccctggcc  
4321 ctaactaagt caattccaaa ccccttcctt cttccagcccc tgacccact  
cactgaggcc  
4381 tgacccact tcttgagacc agttccatcc ctaaaggccct ggtctccctc  
ccatccccag  
4441 gctccagccc ccacagctt ggcactaccc ctgagctgt ccagaatcc  
tgtacccat  
4501 tttacccatca catgttagttc tagccaaatc caggaatctg tgaggtccag  
ttagagtccca

4561 gtaaccctac ctgagcctgg gctctgtcct tgagcttgag cctgggcttg  
agaggtgcca  
4621 ctcttattct ccagggcctg cccctgcccc ctcagcatgt cagacaccca  
ccctctagct  
4681 ggtctggcct cttgagtctg aaacccaccc ccagcccaag ccccgctct  
gagccccgccc  
4741 caacccattt tccgttccca gagcatgttc tcgccaacaa ttagtgggg  
tgtgaccacc  
4801 cctctaacac cgtgccctct gggagcaacc aggacctggg agctggggcc  
ggggaaagacg  
4861 cccggtcgga tgacagcagc agccgcatca tcaatggatc cgactgcgat  
atgcacaccc  
4921 agccgtggca ggccgcgtg ttgctaaggc ccaaccagct ctactgcggg  
gcgggttgg  
4981 tgcattccaca gtggctgctc acggccgccc actgcaggaa gaagttagt  
ggagttccaa  
5041 gaggaggggtt ggtggggacg gggaaagtggg ggtgggggtg gggaaagtggg  
ggtgggggtg  
5101 tcatggaggt gagggctggt gggacgggg aagtggggtt ggggggtgtca  
tggaaaggtga  
5161 gggttggtgg ggatgggttg gggatgtggg agcaggagga ggtcgagttg  
gggataggac  
5221 taaggatgga gtttgcggg ggagcaaggt gggaggatga gttggagag  
gggagagtgt  
5281 tgggttaggg aatgggaagg agccaaggat gggttggatt tgggggttagg  
agcatatatt  
5341 tggtaatgg tttggatgg aggttggatt gggattggct ttagaattgg  
gggtgggtga  
5401 aaatcggct ggggtggaaa tgaagatagc atggagatag gttgagatt  
gggagcagat  
5461 atagaatgaa ggatggggat tggagtttg ggtgggttg gagatggttt  
gattgggct  
5521 tgagaatgca tatggtgatg gcttctgggt agggaaagaa ttagggttgg  
gaatgggatg  
5581 gtttggaaat tggactggg atggggacag gcatggatt ggagaccaag  
agggagttga  
5641 ggatggtttg gggaccgggg gtggggatgg ggggtgggt ggggctgggt  
gtgggggttgg  
5701 gattggcggtt ggacgtggag atagagatca gggttggtgg tgacctgccc  
catcttcctc  
5761 agatgttca gagtccgtct cggccactac tccctgtcac cagtttatga  
atctggcag  
5821 cagatgttcc agggggtcaa atccatcccc caccctggct actcccaccc  
tggccactct  
5881 aacgacactca tgctcatcaa actgaacaga agaattcgac ccactaaaga  
tgtcagaccc  
5941 atcaacgtct cctctcattt tccctctgct gggacaaaagt gcttgggtgtc  
tggctgggggg  
6001 acaaccaaga gcccccaagg tgagtgtcca gtttcttctt gataccgacc  
catctctgcc  
6061 gccttccatc tttctccact ttcattgtg ttcctgtttt acagtgcact  
tccctaaagg  
6121 cttccagtgc ttgaatatca gcgtgctaag tcagaaaagg tgcgaggatg  
cttacccgag  
6181 acagatagat gacaccatgt tctgcgcgg tgacaaagca ggttagagact  
cctgcacagg  
6241 gaggacacct ctctttattt ctcacatcactgactgc caactcggtt  
acatggagcg  
6301 ttgccaaatt ctgagaatcc agcaattgcc aagacagtca ggaccctgt  
tctcacagag

6361 ctcataccct agagtagtgg tgtagtagaaataatgct gagctgctta  
tgtcattcc  
6421 agtttttag tagccacatt aaaacaggta aaaaaggctg ggcgcagtag  
ctcacacctg  
6481 taatcccagc actttggag gctgaggcag gcagatcacc tttggtcagg  
agtttgagac  
6541 tagcctggcc aacatggcga aactctgtct ctaaaaaaaaaa atacaaaaat  
tagcctggca  
6601 tggtggcggg cgcctgtaat ctcagctgct caggaggccg agacacaaga  
atcacttaaa  
6661 cccaggaggt ggaggttgca gtgagctgag atcgtgccac tcactccaac  
ctgggagaca  
6721 gagtgacact tttgtctcaa aaagaaaaaa aaaaacaagt aaaaagaaaa  
caggtgaat  
6781 taacttaat aacccaatgt atcccaaata caatcatttc aaagtgtaat  
taatataaaa  
6841 caattatgaa tgagatactt tacattctt tcttggggc atattaagtc  
tttggaaatgt  
6901 agtatatatg ttatgctgac agcacatctc aatttggact agctacattt  
caggtgctca  
6961 gtagccacat gtggctagca gttactgtat tggatggcac ggatctagag  
ggaaagatca  
7021 gggctgtttt gtatgggtgg gcaggttgg cactgcataa agataccata  
tctaataggg  
7081 gcactccgtg ttacagatgt cagtttggc agtttcagg cgtgtggtag  
ttaagtgtct  
7141 tggcaaca aatctgtaa tatgacagtt ttctagcaag tgctggtaaa  
atatctttag  
7201 gaaggaaaag agaaaatctgg taggtatTT tacaagagaa tatttaatac  
aggggattaa  
7261 ttgcaaagct gctggaaaggg ctggaggaac aaagtaaaaa aataaaaaaac  
tctgtggtca  
7321 agaatctgca taaatagggc aatttcagag agtggtaaag gtaacccca  
aaataaaaaca  
7381 tgggttttagg atagtaaaca ataagggcca atattcaaaa aggtggtag  
gggagccctcc  
7441 ttggagaggt ggcatttgag cagagaatgg atgacacaaaa gaagctaaac  
tcgtgaagtt  
7501 taagggaaa gaaaaggcac gtgcaaaggc cctgaggcag taaggaattt  
ggctgattca  
7561 aagaagaaga ggaaaccaat gcaactggag aacaaaagtg gggcaacag  
tagaaagtga  
7621 cgctggaggt gtaggcaggg gcaatgctc tgcaagtatt tcttggtcac  
caacacagag  
7681 cttccctatg ttctaatgga agctgtatct gttgaggaag acagaattta  
aaatcaaact  
7741 gttacatcaa ccagcacccct tctctgtatt caggctccca agggatctag  
aaggacgtaa  
7801 gttacaacagc tctcattagc agggtgtgtg tttcaacagt agtaggaag  
ctggggattc  
7861 aggagtactc cagtcacatg gctatgaaaa gctccccca aattgtacaa  
acctgacaaa  
7921 tgcaacacccct ccccaatcttct tctctgtgcc ctgggtgtgg  
gggggtgggt  
7981 tgcgaggggg aaaacttttta acagaagaaa gcacatctcg gccgggcgtg  
gtggctcaca  
8041 cctgtaatcc caacactttg ggaggccgag gcgggtggat cactaggtca  
ggagatggag  
8101 accatcctgg ctgacacgggt gaaaccctgt ctctactaaa aacacaaaaaa  
attagccggg

8161 cgtggtggca ggcgcctgta gtcccagcta ctcgggaggc tgaggcagga  
gaatggcctg  
8221 aacccgggag gcggaacttg cagtgagccg aggttgcacc actgcactcc  
agcctgggca  
8281 acacagttag actccgtctc aaaaaaaaaa aaagaaaaaga aaagaaaatca  
catctcattc  
8341 aagtggtggc attaaaaact atttagcctt tctgtaggca aggttagtat  
cttgggggg  
8401 cagacctcaa ggtgttttt tgggttttt ttcataccgg tgggtggct  
gggtgtggcc  
8461 actaaaagct acaagcaaga aataataaca actacaacaa tactaataacc  
aatagtataa  
8521 aaataatagc atctggctaa ttgctggaca ctgtttaag tgggttgcat  
gcctcagctc  
8581 attaactcat ttacctgtta ttattggccc tattttacaa acaaggagcc  
aaggctcaga  
8641 gcagtttaact aacagcctct caaaagaaac tctgcagaga tattaaattt  
aaaaaataat  
8701 gagagaaatt aaaccacaag aaagttgaaa ttttagaggta caggcagcta  
agcttgggg  
8761 ctttggaaaca gtgtctgcta ctggggaaaaa ggcaagtctt ggcttccta  
ataattgata  
8821 ccaggactct gtaattcata ttttgcata atgtaagtaa gaaatgaagc  
cgggtgcaat  
8881 ggcacatgcc agtaatccc gcactctggg agactgaagt gggaaagatca  
cttgagctca  
8941 ggagttcaag accagcctgg gcaactaaaa attaaaaaaa taaaaataact  
aatttgggg  
9001 attttagtag attttattca taccacttac atcattattt tagtatgtac  
atattttttt  
9061 cttttttttt cttttttttt cttttttttag acggagtctc gctctgtcac  
ccaggctgga  
9121 gtgcaatggc accatatacg ctcaactgcag catgcgcctc ctgggttcaa  
gcattttctc  
9181 cacctcagcc tcccaagtag ctgggataac aggacccac caccatgcct  
ggcttatttt  
9241 tttttccgt agagatgggg ttccaccatg ttggccaggc tggctttgaa  
ctcctgaccc  
9301 ccagtgtatct gcctgcctcg gcctcccaaa ttgctggat tacaggtgtg  
agccaccgtg  
9361 cccaggtggg agatagacat ttctctctac ctcaaacaga ggtccactca  
agctactttt  
9421 cattttcttc ataaatatta gccgagtgcc tattttgcac caggaatgg  
tccaggtgt  
9481 gtggatatgg catcaggca aacagaccaaa aaacttcctg ccgcgtggac  
ctcatgttcc  
9541 ccaagtggaa gacaggcaat aaagagatag ataaatatgt agtaaattaa  
aaaaaaaaaa  
9601 aattagccgg gtgtggtggc ttgcacctgt agttccagct acttgggagg  
ctgaggtggg  
9661 agaattgctt gagccaaac gtttgggact gcggttaagcc atgactgcac  
tgctgcactc  
9721 cagacagcag cctgggtgac aaagcaagac gttttgtca gaaaagaaaa  
aaaaagagac  
9781 gaagggagga aggagagaga aaggaaggaa ggaaggagaa agaaaggaag  
gaagggagaaa  
9841 gaaaggaagg aaggaaggag aaagaaagga agaaagagaa agaaagaaaa  
agaaagaaaag  
9901 aaagaagaaa gaaaagagag aggaaggaag gaaagaagga aaagagggaa  
aaaaatgact

9961 gttgaagagc agtgagtatt attataaggag ggtaattata gggaggtatg  
ggaaattgaa  
10021 gacaggaaac acaaattagt ccaagcgaat ggatttctat tgggagtgat  
tctccccata  
10081 gaagacactg gcaataccag gagacattt tgggtgtcac aactataatgg  
aggggcatta  
10141 ctggcaacta atggatagat gccaagtgtg ctgttcaaca tgctatgatg  
cacacggcag  
10201 gcctccacaa caaaccatta tccagcttca gatgccacca gtgccccagat  
cgaggaaccc  
10261 tcatccaggg gctgagaacc gtattttgc agaagggagg tataaggatg  
ggttgggtgga  
10321 gaatggggaa ggaaggtgtg tgtccagtaa gagaataaag gcctgcacag  
gctggagggg  
10381 agagtgagag agaaagggag gcggagagat acacgatgag ggagacaggc  
tggaaacagaa  
10441 agtagagacg aagattcgag atgtggagag gaagggtcac agacccccc  
gaaatgatgt  
10501 gtggacaaca ggaatctgga agaggaagat ggagtggaga gtgacaaatg  
gggtctaaag  
10561 gttgaacttg gaggccaggg atggcggctc acgcctgtaa tcccaacact  
ttggaggctg  
10621 aggtggcga atcacttgag gccaggagtt cgagaccagc ctggccaaca  
tggtaaacc  
10681 ccgtctctac aaaaaaaata caaaaaattt gccgggtgtg gtgatggaca  
cctgtatca  
10741 cagctactg ggaggctgag gcaggagaat tgcttgaacc cgggagatgg  
aggctgcagt  
10801 gagctgaggt cagggcactg cgctccaacc tggcaacag agtaagactc  
catctcaaaa  
10861 aaaaaaaagc tggatttggaa gtgaaatatt aataacattc tccctctctc  
tcctttgcc  
10921 tttgtctcca tctctgtctt tttctgcatt tcttcatctc tttttttt  
atctctgtgt  
10981 gtctgttccc atctgcttct ccatctatgg gcatctctgg gtctctcatg  
tctccttctg  
11041 cccactttgc cacatctctg cctctctcat gcccccttt ctctcctgca  
gggtgattct  
11101 gggggccctg tggcttgcaa tggctccctg cagggactcg tggctgggg  
agattaccct  
11161 tttgtccccggc ccaacagacc ggggtgtctac acgaacctct gcaagttcac  
caagtggatc  
11221 cagggaaacca tccaggccaa ctcctgagtc atcccaggac tcagcacacc  
ggcatcccc  
11281 cctgctgcag ggacagccct gacactcctt tcagaccctc attccttccc  
agagatgtt  
11341 agaatgttca tctctccagc ccctgacccc atgtctcctg gactcagggt  
ctgcttcccc  
11401 cacattgggc tgaccgtgtc tctctagttt aaccctggga acaatttcca  
aaactgtcca  
11461 gggcggggggt tgcgtctcaa tctccctggg gcactttcat cctcaagctc  
agggcccatc  
11521 ccttcctgac agctctgacc caaatttagt cccagaaata aactgagaag

SEQ.ID. NO. 14

KLK-L2 aa

MATARPPWMWVLICALITALLGVTEHVLANN DVSCDHPSNTVPSGSNQDLG

AGAGEDARSDDSSRIINGSDCDMHTQPWQAALLRPNQLYCGAVLVHPQW  
LLTAAHCRKKVFRVRLGHYSLSPVYESGQQMFQGVKSIPHGYSHPGHSNDL  
MLIKLNRRIRPTKDVRPINVSSHCPASAGTKCLVSGWGTTKSPQVHFPKVLQCL  
NISVLSQKRCEDAYPRQIDDTMFCAGDKAGRDSQQGDSGGPVVCNGSLQGL  
VSWGDYPCARPNRPGVYTNLCKFTKWIQETIQANS

SEQ.ID. NO. 15

Table 11

GGATGCTTACCCGAGACAGA

SEQ.ID. NO. 16

Table 11

GCTGGAGAGAGATGAACATTCT

SEQ.ID. NO. 17

Table 11

GGTGATCTGCGCCCTGGTCCT

SEQ.ID. NO. 18

Table 11

AGGTGTCCGGTGGAGGTGGCA

SEQ.ID. NO. 19

Table 11

CCGAGACGGACTCTGAAAACCTTCTTCC

SEQ.ID. NO. 20

Table 11

TGAAAACTTCTTCCTGCAGTGGCGGC

SEQ.ID. NO. 21

KLK-L3

1 cttgaaccca ggaggcagag gttgcagtga gctgagatcg cgccactgta  
cttcagcctg  
61 ggtgtcagag caatactccg ttttggaaaa caaacaaca aacaaacaaa  
caaaaaacag

121 atggagcaac tgagagaggt cttgtgactt gcccaaagtc acacacacctca  
tcactaatca  
181 cacctaatac ttgagatgg gacacacatg gttcagttcc agagtccatg  
ctccaaacca  
241 tgacgacaca gtgagagaac attcaagggg agcccagacc cagttcata  
accaggcctg  
301 tgagcaggag aaagtggaaag ggatcgtaag tgcccagggg aggcaaagat  
ggactctgcc  
361 tgaggatctc agagattcc tggaggaggg agaattgagg ttgggtgttg  
aaggatgagt  
421 gggagttcac cagaaaaaga agatatgga gaaagacatt cactcattca  
atgaacatct  
481 cctgaggact tctgcaagcc ctgttccgccc tggAACGGGG tgatgctggg  
acacagagat  
541 gagtcagacc tgggcccagc cttccagaag ctgtccaccc ggtgagaagg  
aatgatgagg  
601 agagaggcag ggaggatggg gtgatggaaag ggacaatggg gtggggggca  
gggagatggaa  
661 tgaaaaaaat atatagcaaa ttttctcagg atttggcaaa gatcaggatg  
tattaagaga  
721 gggcacaggg cacttgctac ctggaagggtt gggcacctgg gtccttgggt  
ggtggaggccg  
781 tggggaaaggg ggcaggatgt gacaagagtg ggttaatcca gatggAACCA  
gatttctcaa  
841 cattcttagga gaggcccttg tccttgggg aagaggccca aatccccagg  
gcagggaagg  
901 ttctgcaagg tttgtaaacc tttgtcagctg cctgtggct ctgcctcact  
ccacccctggat  
961 ttccctcaat cttccctgtt ttctgtctcc ttctccact ctcctctca  
tcttgggtcc  
1021 ttctgtgcct gtacccctt ctcttgcattt ctgtctct tttgtctgag  
tcttgactct  
1081 gtctccacc ctcgcctcc ttcttgggtt gtcctccatc acatccctcc  
agccctggccgt  
1141 gggagggtgg tctctgcaca ccactgcattt atccaaaata aacctgctgc  
accccccaggac  
1201 cttaggcttc aaggatctcc ctccctttcc aggacacaaa agattctgtt  
tcttgtagcc  
1261 taaggtgtat aggaatgagg tctccactc tgaagacccc agaggagggt  
cccacaaacct  
1321 ctccacaccc ccagcactcc tccctccattc agtcaagctc tggcccagca  
agccggccagt  
1381 tcatccaaa aggggggtcc ccctgcactt acctcccttc ccaaggcccc  
tgtcacagcc  
1441 ccagggcttc cccctcccccc aggtacattt cccaaaccccg attaatcaca  
ggggcggcccc  
1501 catggaggag gaaggagatg gcatggctta ccataaagaa gcaactggacg  
ccgggtgcac  
1561 gttccaggat ccaggtgccc aggggtcatg aagctggac tccctgtgc  
tctgtctct  
1621 ctgctggcag gtgaggctcc caggctggct gccccttcac ggctgtacta  
aggtcacctt  
1681 gctctccct cccatccca gcttctgcct cctgcctctt aggtttctca  
gcatcccttc  
1741 cctgcctcc cagcctgctc ttgcgtgacc ctttgccttcc tcatccccac  
cccaggccat  
1801 ggctgggcag acacccgtgc catcgcccc gaggaatgtc gccccaaactc  
ccagccctgg  
1861 caggccggcc tcttccaccc tactcggctc ttctgtgggg cgaccctcat  
cagtgaccgc

1921 tggctgctca cagctgccc ctggccaaag ccgtgagtga cccaggctgg  
ccatgctggg  
1981 gagggacaga ggctgggggt caggagaggg tgaggggtgc tttaggccc  
aagtgcggag  
2041 cctccacttc tgataccaca agttcaactc tttagaagttag gaagggtgc  
ctcccaaattc  
2101 ctaaaaattct agagaccagc aatatctcat ttgagaagtc taagattcga  
aacttaggt  
2161 cttcgaatcc gagactgacc cagagaaatc cagaatcgta gaatcctaaa  
atcttgaatt  
2221 tatgaaatttc tgcaatagcc tcagcaaatt tttagaatcat agattcgcag  
actattagaa  
2281 tcttagcagt ctgggtcage actgcccaga ggaattatga tgccagccac  
atgtgtaaat  
2341 ttaaatttct ggtggacaca tttaaaaaat aaggaatgag taaaattaaat  
tctaataat  
2401 ttaacttgac atacccaaaa acttattttt acatgtatc aatttttaaa  
tacgtatgaa  
2461 cgatacagtt tactttgtt ttggtaactaa gcctttgaaa tctgttctgt  
attttacaca  
2521 catagcctgt tacaaaatgg actagccaca tttcaagtgt tcaatagccca  
taatggcttag  
2581 tgtgatccta gaatcttaaa ttcagagctt tctagattca ttgaatattg  
aaactcacag  
2641 tactagaatc tttgattcac agtattcctag aatattgaga ttcaagataat  
tctgtatct  
2701 taaaactatattt gaatcccaga ctcttaaatt tctaaggta tagattata  
gaatgtatgac  
2761 attctagtct ttctttttt tttttttttt ttttttttag acagagtctc  
cctctatctc  
2821 ccaggctgga gtgcagtggc acaatctcag ctcactgcaa cctctgcctc  
tcgggttcaa  
2881 gcaattctcc tgccctcagcc tcctgagtag ctgggattac aggtatgcac  
caccatgcca  
2941 ggctattttt tttttttttt ttttttttagt agagacgggg gtttcaccat  
atggccagg  
3001 ctggcttga actcctgacc ttgtgatctg cccgcctcgg cctcccaaag  
tgctgggatt  
3061 acaggcgtga gccaccgcgc ccagccaaaa ttctagtctt tttgtcctag  
aacataaaa  
3121 ttctatgttc aaatcttaga tttaattcag ataatgttag aatcctggag  
ttttttttagt  
3181 ccagggaaat ctggaatgtt agaatcttgg attcataaaaa ctctaaacct  
tgagcctcta  
3241 gattctagaa tcatggataa tagtgtgtcg gaatctgaga attctagaat  
cttaggttct  
3301 gggcattcta atagtacctt ggaatccacc tgatgcagga atcctctctc  
cattgcctct  
3361 gaaaagtgac catccataact gttccaattt tctccctcc atgagtaaag  
cactgattgt  
3421 ggtaagagat gctgtgtggg aatttcccat catgcattgc tccatgatgg  
aacctccctt  
3481 aacttaagcc tatacatcag actgggagaa cgatgttcag atttcagccg  
aaagtgaagc  
3541 aggagaaatg cagagatatg aaggtggaaag agagtgagag gcagggaaag  
ggtagggaa  
3601 tgaagggatg taggggtgag gactactttt ccagatccag agccaaagaca  
gcaagaatga  
3661 cagagagaga cagacacaga tgggtcggt tcccaaccc tgaattcgca  
gtcattagcc

3721 tgctgcctaa tgtcagaggt cagaggctgg ggaatggact tgtcatcccc  
gaaaggatcc  
3781 cagctgtcta gggcatggac cagaaatgaa acaagtgcgc tgagactgtg  
gtgaggggctt  
3841 aaggtagac accaggaaga catgcattga agggtgaagg atatgataga  
caggaaaagc  
3901 tgaggccaga gatgacccccc aatttgggg tttccatat cccatcccc  
ttcatacaca  
3961 cgcacacgta tacacacaca ccacttagac atacagagcc gctcccacag  
aagccaccag  
4021 acctgtgggg gcaggggtgg ggcgggtgtt atgtggtagg tgggtcccc  
cgtgcccaca  
4081 ccgttcctag ggacccaagt caccaccaag gctccaggtg agtagggagg  
aaggtaggctc  
4141 actcagcctg ggacttaggag cgggggctt gtggggagag ctacaaagat  
ggagacacac  
4201 aaaacatcag agtggggacc agggacccag aggaggtgtg tgccctcgctt  
aaaatcacag  
4261 taccctggc cagacataga tgatgagggt gcagagaggg tgggtggctt  
gcagagggtc  
4321 acacagcacc ctgatggaca gaaaaagagg gctggggctg aaaggacttt  
tacctttccc  
4381 ccagcttgac ctctgaggcc tgccctagca ggtatctgtg ggtccgcctt  
ggagagcacc  
4441 acctctggaa atgggagggt ccggagcagc tgccctgggt tacggacttc  
ttcccccc  
4501 ctggcttcaa caaggacctc agcgccaatg accacaatga tgacatcatg  
ctgatccgccc  
4561 tgcccaggca ggcacgtctg agtctgtctg tgccctgggtt caacctcagc  
cagacctgtg  
4621 tctccccagg catgcagtgt ctcatctcag gctgggggc cgtgtccagc  
cccaaggta  
4681 tgacctggcc cagaactctc tctgaaactt gctccctcac ccctctgtct  
ctgcctttc  
4741 atctctgtct tctccttttc tctctctctct ctctctctgt cagtctatct  
atctgccaat  
4801 cgatataattt aaccaaataat aagatgctag catttttaag atgtgccatt  
atttcatgaa  
4861 ctgcgaagaa gtggaagaag gaggaggagg agaagaaaaa aaggaggagg  
aggaaagatc  
4921 ccattagatc ccattgatta tataacacca ttttctggaa gacacattct  
aatttcagag  
4981 tttttgtttt tttgtttgtt ttttttttt tgagacaggg tctcgctttt  
ttgctcaggc  
5041 tggagtgcag cgggtgtatc acggctcatt gcagctttga actccctgggc  
tcaagtgtatc  
5101 ctctcgccctc aacctcccaa gtagctggga ttacagatat gcaccaccac  
atcccacacc  
5161 ggggtcattt ttttattatt tattattatt attattatta tctttttttt  
tgtattttta  
5221 gtagagacag aggtttcacc atattggcca ggctggtctc aaattcctga  
cctgggtatc  
5281 tgcccgccctt ggactcccaa agtgcgtggaa aaacaggcat gagccactgc  
accggccaa  
5341 aattcttagtc ttttttaat ctatgtcatat ctttagatata attcagatata  
tggttagatc  
5401 ctggagtttt ttgatccagg ggaatctgga atgttagaat cttggattca  
taaaactcta  
5461 aacgttgagc ctctagattc tagaatcatg gatacttagtg tgtcagaatc  
tgagaattct

5521 agaatcttag attctggca ttctaatagt atcctggaat ccacacctgatg  
caggaatcct  
5581 ctctccattg cctctgaaaa gtgaccatcc atactgttcc aattttcttc  
cctccatgaa  
5641 taaagcactg attctggtaa aagatgctgg gtgggaattt cccatcatgc  
attgctccat  
5701 gatgggacct ccttaactt aagcctttagt ctaaaaattt ttattatattt  
tagcaaagat  
5761 gaggtcttgc tatgttgcagg aggctagtct caaactcctg gcctcccaa  
gtgctgagat  
5821 tacaagtgtg agccactgtt cctggcccag agatgtttaa atgtgaaatg  
cgttcatctt  
5881 agaatggaa taagaccatg tctctcagag tcacggatca ctgacccatt  
agccaaattt  
5941 ggtcagtggaa ttggaaaaac agtctgaatt tggctgtcc aatatctaaa  
acttggaaag  
6001 ttttatacaa aagccaggatt tctggattca cctgaaaaag tttgaagaac  
tcacatccc  
6061 aaaatagcaa gcattggct gaggtaatgg aggctgcccc cttcagccaa  
gataaggctt  
6121 ctgattcaact ccaatggacc caaatggctc ctgtctccct gcacagcccc  
cgtccccac  
6181 ttctgtttac caattctgtt tattatatcc cttgatgtcat cggagcctgc  
acccatgtct  
6241 tatatacatg cacatgtgtt ttatataatcc atatccacat ctataactgac  
tacactgtat  
6301 ctggtatctc tgtctatgtc tctgtctcca tcagtgacca tcttcctgca  
aatctcttcc  
6361 ctttatctc actgccttca ttccacccct tgaggtctgg gtcttttct  
atttctttt  
6421 tttttttttt taagagactg agtcttgctc ttgttgccca ggctggagtg  
cagtggtgtg  
6481 atctcggtctc actgcaacct ccacccctg ggtttaagt gatcctccctg  
cctcagccctc  
6541 ccgagtagct gggactacag gtgtgcaaca gcatgccccag ctgattttt  
gtattttcag  
6601 tagagacgga gtttaccat gttggccagg atggtctcaa tcttttgacc  
ttgtgatccg  
6661 cccgcctcag cctccaaag tgctagggag ttatataatgc atctccctt  
atctcttggc  
6721 tctctgtcatg catctttctg tttctcttcc ttcccttttctt tttttttt  
ttttttttt  
6781 tttttttttt tttttgaga cggagtcttg ctctgtctcc caggctggag  
tgcaatgtacc  
6841 agtctcggtctc cactgcaacc tccacccccc aggttcaagt gattctcggt  
cctcagccctc  
6901 ccgagtagct gggattacag ggcgcctgcca ccatgctgg ctaattttg  
tatatttgc  
6961 agagatgggg tttcaccatg ttggctggc tggctctaaa ctccctgaccc  
caagcgatcc  
7021 gcccgcctcg gcctccaaaaa cactggatt acaggcatga gcccacgggtgc  
ccggccagcc  
7081 tctctctcta cttggccctc ttctcttcc tctccatttgc tttctcttgc  
gtgtatgac  
7141 tggctgtctg tcaactgtctc ttgtctctat ctttgagagt cctaaatgtg  
gctccatgg  
7201 tcctttggaa aagctgcagg gaggactcag ggcagtgggg tgctgagtgt  
gttggagaca  
7261 gttgcagatc cttgacagtt ctcccttgc acagcgctgt ttccagtcac  
actgcagtgt

7321 gccaacatca gcacatcggaa acacaaactc tgtcaactggg cataccctgg  
 acacatctcg  
 7381 gacagcatgc tctgtgcggg cctgtggag gggggccgag gttcctgcca  
 ggtgagacct  
 7441 tactctgggg aaaatgaggc tgtcctgcca agttttctag gattttagggg  
 agcagagggg  
 7501 tcggcccccgc gccttcctgg gtcaaaatga gaaggagact gggataacctg  
 gttcctggga  
 7561 gaggacggga ccagggcctg gactccttag tgtaaaagag aaaaggtctg  
 gaggtccaga  
 7621 cttctggatc tacaggagga gtgggctggg cgtccagagt ctgagtcctc  
 ggggaggagg  
 7681 aggttaggtc ctgcggggag gtggggccctc tgagctttta ctccctggtc  
 tgaggaagaa  
 7741 gaggctggag atggaggact ctcggatgtt ggaggaggaa ggggctgggg  
 ctttctggg  
 7801 agggaggaag tggccctgtt aattgtcatg aacagagtgg cctaacagtt  
 cttctgcctt  
 7861 tctctcgctgtt acagggtgac tctgggggccc ccctggtttgc caatggaaacc  
 ttggcaggcg  
 7921 tgggtctgg ggggtctgag ccctgctcca gacccggcg ccccgagtc  
 tacaccagcg  
 7981 tatgccacta ctttgactgg atccaagaaa tcatggagaa ctgagcccg  
 ggcacacggg  
 8041 ggcaccttgg aagaccaaga gaggccgaag ggcacgggtt agggggttct  
 cgtagggtcc  
 8101 cagcctcaat gttcccgcc ctggacctcc agctgccctg actccccctct  
 ggacactaag  
 8161 actccggcccc tgaggctccg cccctcacg aggtcaagca agacacagtc  
 ggcggccctc  
 8221 ggaacggagc agggacacgc cttcagagc ccgtctctat gacgtcaccg  
 acagccatca  
 8281 cttcccttgg ggaacagcac agcctgtggc tccggcccaa ggaaccactt  
 acacaaaata  
 8341 gtcggcccc tcggacttt gcccagtggg acttccctc gggactccac  
 cccttggc  
 8401 cccgcctcct tcaccagaga tctcgcccc cgtatgtca gggcgccagt  
 agctccggcc  
 8461 acgtggagct cgggcgggtt agagctcagc cccttggc cccgtctgg  
 gcgtgtgctg  
 8521 gtttgaatc ctggcgaga cctggggggaaattgaggaa gggctggat  
 accttttagag  
 8581 ccaatgcaac ggatgatttt tcaagtaaacg cggaaacctt ca

SEQ. ID. NO. 22

KLK-L3

VHFPTPINHRGGPMEEGDGMA YHKEALDAGCTFQDPACSSLTPLSLIPTPGH  
 GWADTRAIGAEECRPNSQPWQAGLFHLTRLFCGATLISDRWLLTAHCRKPL  
 TSEACPSRYLWVRLGEHHLWKWEGPEQLFRVTDFPHPGFNKDLISANDHND  
 DIMLIRLPRQARLSPAVQPLNLSQTCVSPGMQCLISGWGAVSSPKALFPVTLQ  
 CANISILENKLCHWAYPGHISDSMLCAGLWEGRGSCQGDSGGPLVCNGTLA  
 GVVSGGAEPCSRPPAVYTSVCHYLDWIQEIMEN

SEQ. ID. NO. 23

## KLK-L3

MKLGLLCALLSLLAGHGADTRAIGAECCRPNSQPWQAGLFHLTRLFCGAT  
LISDRWLLTAAHCRKPYLWVRLGEHHLWKWEGPEQLFRVTDFFPHPGFNKD  
LSANDHNDIMLIRLPRQARLSPAVQPLNLSQTCVSPGMQCLISGWGAVSSPK  
ALFPVTLQCANISILENKLCHWAYPGHISDSMLCAGLWEGGRGSCQGDSGGP  
LVCNGTLAGVVSGGAEPCSRPRPAVYTSVCHYLDWIQEIMEN

SEQ. ID. NO. 24

Table 13

CATGCAGTGTCTCATCTCAG

SEQ. ID. NO. 25

Table 13

CATGGAGGAGGAAGGGAGATG

SEQ. ID. NO. 26

Table 13

CTTCGGCCTCTCTGGTCTT

SEQ. ID. NO. 27

Table 14

GACCCTGACATTGGACATCTA

SEQ. ID. NO. 28

TABLE 14

GCCACTGCCTGATGGAGACTG

SEQ. ID. NO. 29

TABLE 14

AACATCAGCATCCTGGAGAA

SEQ. ID. NO. 30

## TABLE 14

CTTCGGCCTCTCTTGGTCTT

SEQ. ID. NO. 31

## TABLE 14

GGGTCAGAGCTGCAGAGAAG

SEQ. ID. NO. 32

## TABLE 14

GGGCCTGTCGTCTGCAATGG

SEQ. ID. NO. 33

## TABLE 14

ATGGCCACAGCAGGAAATCC

SEQ. ID. NO. 34

## TABLE 14

GGTCACTTGTCTGCGCAGAC

SEQ. ID. NO. 35

## TABLE 14

CCCAACCTGTGTTTTCTC

SEQ. ID. NO. 36

GGCCCTCCTCCCTCAGA

SEQ. ID. NO. 37

## TABLE 14

ATCCCTCCATTCCCATCTT

SEQ. ID. NO. 38

## TABLE 14

CACATACAATTCTCTGGTTC

SEQ. ID. NO. 39

TABLE 14

AGTGACACTGTCTCAGAATT

SEQ. ID. NO. 40

TABLE 14

CCCCAATCTCACCAAGTGCAC

SEQ. ID. NO. 41

TABLE 14

GCTTCCCTACCGCTGTGCT

SEQ. ID. NO. 42

TABLE 14

CACTCTGGCAAGGGTCCTG

SEQ. ID. NO. 43

KLK-L4 NA

1 caggaggttg cacactgttc ctccccaccc gccactgcac cccccaccaag  
gatggaaattg  
61 gaggcggggg gcagattcca gggtcagggc tgtcaagagt gaatgaggcg  
aggagacatt  
121 caggagcaga gaggtttcag acgcggaggt tccgggcacg ccctcaacac  
cccttcacc  
181 ttctccctcag gccccgcccc ccctgcctc ccctcccgat cccggagcca  
tgtggccct  
241 ggccttagtg atcgccctccc tgaccttggc cttgtcagga ggtaagaatg  
cgcgggggtg  
301 gaggcgccgc ggccattcgg gacaatggta ggaggggtca ggccggaggg  
ggagggggcg  
361 tgggagccgc gagctccgc ccccgccccac tcggggccgg gtccagtgg  
gacagctcag  
421 agctttctt gcttgcctt gggtgacctg gtttcccgcc tgaggttggc  
cctccgaccc  
481 cagacccttc acctcccaaa ataccctcgc agcagccct cccgcgttca  
aggcttctg  
541 tcctctctgg aaagctgaaa gacatgggtt cgcttcgtga cgctgcccgt  
ttgagccagt  
601 agccttagcag ctgctttgtg cctaaattgt tttcatctgg aaaatgggct  
taatctataa

661 gtgcttacca gagaaggta ctgtgaatat taaaacgagg taatgcgtcg  
agccttcagt  
721 atgtcgagg tagaaggac ttgaaagtta gccacttagc cgttattact  
ttatttagtag  
781 tattcctttt tttttttttt ttttttttgg agatggaacc ttgctctgtc  
tcccaggctg  
841 gaaggcagtgc acgcgttgc ggcttactga aaccccgcc tcccgggttg  
aagcgattct  
901 cctgcctcag cctcccgagt agctgggatt acaggcgccc gccaccacgc  
ccaactaatt  
961 tttgtatTTT cagcagagac ggggtttcgc catgttggtt aggctggct  
cgaacttctta  
1021 acttcaagta gcccgcgtca gcctcccaaa gtgccaggat tacaggcatg  
agccaccgag  
1081 cccggcctct agtattctgt cttcataactc agcccttcc agaaccttct  
agattgttat  
1141 ttaatcctt ggggtgaccc caaacatcg tgacccacc ccaaatttgt  
agtcccttaag  
1201 atccttatgg atcttccca tctttccctg ccgtttagg caggttctct  
ggaaaccccg  
1261 ttcatgaatc atttattcat tcaacaaaca gctattaaac accggccact  
gtgctgggtg  
1321 ctgtacaagc agagacacag tccctgtct cagcacctgg agtctagcgg  
ggacagacgc  
1381 agatgttatt caaacaatta tccaaataat tagttaataa ttatcttgac  
atgaggtgaa  
1441 gacttcaagg agccaagcca ggggcctaga gatgtatgg cggcttcccg  
accagaggcc  
1501 ttcccaaagg gcttgaccct tgagccaaga cctgaaaaag gaggatctg  
tgggtgcctg  
1561 gcacctggca ccattttgg cctgaaggtg ggggtggcttt tctcctctgg  
cgacactccc  
1621 tggattcatg cccgtgccac tcctgagtgc cacaccctag gctaggagac  
ccacacgcta  
1681 cgccttgg agtcctcaac aacctggcga ggttagtgca ttgtaattac  
tccaaattca  
1741 tggcagagaa acctaggact caaagacaga aggctcctgc tccaatgaca  
ccggcgatgc  
1801 ctgagtcaga atcctaatac aggttggttt ccctgtccat atcctggact  
tgaggctctg  
1861 aaaaccatTT ttataacttt tgacctaattc atttgcattaa agttagcttt  
ttttttctt  
1921 ttttcaactca aacaaaagca tggtaactt tatattactg tcctgaatag  
agaatagaat  
1981 tctttgtcat aaatagaagg taaggaagga aataaatcct gcacaatgaa  
aagaaaaataa  
2041 tatgtttatt ggggtggacc acctgaaatt gctgatactt gaccctttt  
gacccctcta  
2101 aaacaacttt tgcagatgg tcagtgtat aaatgttagg tggcctgtatg  
aggcttctgt  
2161 gtccctcctgg ctttggaaag tgagctcagt gaggattagg gaggtgtttaa  
aaccatatta  
2221 gcaccatcct gagactttat ctttgacaaa atcaggttta aaagagaact  
ggatgctgg  
2281 tcagcgtctg agtgtgcgt ttaacgttac ttaaatctca tctctctacc  
atctaaaatg  
2341 atcctgtgtc caccgacaaac ttctgtccct aactgcaaac cactgagctc  
atccaaactgc  
2401 ttggccctgtta gttggggaaa ctagctaggg aggcagaggg acctcctgtt  
gtagctaata

2461 attaataata acatttccca ctgactgagt gctctccatg ccacacctg  
tgctgcacgg  
2521 tttgaaatgc aggatcatct tgaattcttc aactgcgaa tgagagatga  
actattactt  
2581 tttctacttg acagctgggg aaactgaggc tggtagttt cataaggtca  
cacagtcaca  
2641 aaatggcatg catgttcagg attggattct ccctgtccca cggacccctg  
ctgtgcttc  
2701 aatgccagac acagtgcctg gcacacacag catttattta ttgagccccc  
attgtgtgcc  
2761 aggcgctgtg ttaggtcctg ggaatatggt actgaataaa gcagtttaagg  
tgccctgttgt  
2821 caatggagct tacagtcaaa gtggagagat tttaaaaac gaatacatac  
aaatgtgaag  
2881 agaaatgaat agcaatcatt gttctgtatga agaccaactg gaagaatgt  
atgggggagg  
2941 agtcgggacc aggagagtca acattagacc aggtggtcag ggaaggcctt  
tctgaagagg  
3001 agacattta gctgacctct cagaattaag aaggacccag acataacaacc  
tctaaattct  
3061 gagggtcatc cagtagaata ttccatataat gtatataatga aatatcctat  
atctgtgt  
3121 tccaattatc cactagcccc ttcaggctat tgaacatttg aaatatggct  
ggtgtgactt  
3181 aagaactgaa ttttaattt agtttactt catttaattt agtttaattt  
taaatagcca  
3241 catgttagcta gtggctacca tattaaacaa cataggtctg gagaaaggac  
tgtcagaga  
3301 gaggaaatag caagtataaa atgtctagta tggggcattc caagatgatt  
taaattctt  
3361 ttttcttaa atgcctggtg tgtttgaaga acaggccat gaggctggac  
tagaggaagt  
3421 cagaagaaag aggttggaga tggggcaaa gaggctggca agggccagac  
agcacagat  
3481 cctgcacacc ttgggaaggc ttttggatt ttatttaaa gaaagtttag  
cctgggaaca  
3541 acatctgact ttctttgttt gaagagtctt cagctactt tgagaagact  
ggatcgagg  
3601 gatgtaaaag tggaaggatt taggttaatg ttgttagtcat ttggctaca  
gaagatgggg  
3661 catggaccaa gatggggca gaagtgtgga gataactgga tatttggag  
ataaaaaccaa  
3721 taggaactgg ttgtgagtga tgaaggaaag aagagaagca aagatgactc  
ccaggtttgg  
3781 ggctgagcac tgagggtggaa aatactggag cgaacagttt tgattgagaa  
gaatcaagtt  
3841 gggaaatacaa agcttaagat gcctgtttagt catccaaatc aacagtgttt  
gagtttttag  
3901 cttaaaagaag agttcagggc tggagatgtat tagcctatag ctggatttt  
aagccatgga  
3961 ggcaaccagt atatatgcag taaaaggata gagagatggg tggaaagatg  
attggatgga  
4021 tgcattggatg gatatatgga tagatggatg gatggatgg tggattggat  
ggatggatgg  
4081 atggatggat ggtggatgg atggatggat ggtggatggaa atggaccagt  
ggatggaggg  
4141 acagatgagt ggtggatgg ttggatggat ggtggatgg atggatggat  
agatggatgg  
4201 atgactaccc aatggatga atggatagat ggtggatgg acggatggac  
aaatcaatag

4261 gatgaatggg ggatggatga ttggatagat tgatggatag atattgccta  
ggtggatgtg  
4321 taggtcagtc tcacttctac ctccctgaaat ccattttctg gtagaatgt  
ataaaaaatgt  
4381 catgtggaga gaaagtcagg ctccctgctta cctatcagca acatcctcat  
tttgtgaact  
4441 cttctgttaa cccccagtgg aggatgggt acttcctgag aaaataatgt  
caccctttg  
4501 ccctaattca tctccacttg gtcaagaata gcaactgccca taggtcggca  
aattcatctt  
4561 cagttcctgg tcacccaggg caataatccg acccttaccc caaaccagg  
aaccacaacc  
4621 ccagggctcc tctgccccct ggatcccagt tttctaaca tctctttct  
ttaccaggtg  
4681 tctcccagga gtcttccaag gttctcaaca ccaatggac cagtgggtt  
ctcccaagggt  
4741 gctacacctg cttcccccac tctcagccct ggcaggctgc cctactagtg  
caagggccgc  
4801 tactctgtgg gggagtcctg gtccacccca aatgggtcct cactgccgca  
cactgtctaa  
4861 aggagtatgt gggggccggg ggagcatggg gtagggatga gaatgggact  
gggattgtgg  
4921 atgggttaga gttggatttg aggatggagt tggagttagg gttggggatg  
gacatggag  
4981 tgagaatgag gtttgggtt gagatatggg gattgggtat gggaaatagaa  
tcaaagttagg  
5041 ggatttggat gggattgaag ttgaggatgg gggagatgt a tttggagatg  
aggaaggttag  
5101 gatggagaag aagttagggtt gggatggga agaggtggg gctgggatgg  
ggatggaaat  
5161 gggctcatct tcttcctaa ccaccttctt tctgcacccca cagggggctc  
aaagtttacc  
5221 taggcaagca cgccttaggg cgtgtggaaag ctggtagca ggtgagggaa  
gttgcact  
5281 ctatccccca ccctgaatac cggagaagcc ccacccaccc gaaccacgac  
catgacatca  
5341 tgcttctgga gctgcagtcc ccggtccagc tcacaggcta catccaaacc  
ctggcccttt  
5401 cccacaacaa ccgcctaacc cctggcacca cctgtcggt gtctggctgg  
ggcaccacca  
5461 ccagccccca gggatgcac ccacacaggt ggcctgaggc cccataggag  
tggctggga  
5521 aacagggggca gagatgggag ggaaggtctg aggtaggttc ctttatata  
aaaaatataa  
5581 ataagtaaat aaatataat atttaaagtt agctgtatcc tttatataaa  
tataaattca  
5641 tgaatatata aaaatatgag tatataaatt catgaatata tagaaatata  
aatagatcta  
5701 atatatgaat atattatatg atgtatatta tgtatttat agtaatataa  
tttatataa  
5761 tacaaaaagt atacaaatta aatgtatttt ataaattata aaatttatca  
attatgtatt  
5821 ttaaatatgt atttctgcat aatgtatata ttatataaa tctatattta  
aattatataat  
5881 tataaatgtt ttttataat gtatacattt atatatttat atactgtaaa  
tgaattttat  
5941 catttataat atataaatca tacatataaa atgtttatata ttctataatt  
tataaaatgt  
6001 ttaatatattt aaatatggtt attaatgaaa tgtctaataa ttcaatgtaa  
taattaattc

6061 tatatcatta cttagtaagt ataatacatt atatatgtga atataaaagtt  
gatgtatata  
6121 ccgacaagag ccctttgcat ctcccctagca atccctgact ctctcccagc  
ctcatgtttg  
6181 tatctttctc ctcaacatgc cctgtctctc ttccctaccat tctatccaac  
tctccctaa  
6241 ctcttccat ccctgttccct gctttccca tcttaattc tctatttctg  
accatctccc  
6301 tattccaact ccctctctcc aactttctct ccccacccgct ggctccacca  
ctctccttat  
6361 caaccccca ttctcttgc ccttccctcc ttgtccttcc ctccacttt  
ctcctcatct  
6421 ctcccttcgc ctctctccca tgtccctcca tatttctgtc acttccgttg  
ctttacccag  
6481 ataggtgctc atctcttctc ccatcttctt cttccatct caattttctta  
tctactctt  
6541 acccattcaa ctcgcctatt tcacccat cccatatactt atccaggtcg  
gatacccttag  
6601 accttctctt tcttctcccc agtgaattac cccaaaactc tacaatgtgc  
caacatccaa  
6661 ctccgctcag atgaggagtg tcgtcaagtc tacccaggaa agatcactga  
caacatgttg  
6721 tgtgccggca caaaagaggg tggcaaagac tcctgtgagg tgaggccggg  
aggctgggtgg  
6781 gtgccttggc caggatagaa agccagaatg gaagtgacag atgctgggg  
aaaagctttt  
6841 ttcccagcct taggggaaacc aatctttata agataacaatg tcccctcaca  
taggaggtca  
6901 agacaaaaag gggtacccag ggatggcagg aataattcat cataagcccc  
agctttgact  
6961 gagtggtgc caagatccct gtgtttagat gcataaaagggt tggtattctt  
tcacttgtga  
7021 gtgatagaca accaactcaa actggcttaa acaaaatgca ggctttgtt  
actgaaaatc  
7081 caggttgtct ggctttaggc acagatggat ccaggtatgc aaattgtgt  
tttggaaattc  
7141 tgtctttctt ttaactctca gctcttctt attctttt ggcttcattc  
tcgggttagat  
7201 tcttcccatg acaagatggc cccagcagct ttgagcttac atcctaccct  
ctaggcaacc  
7261 ctattagaaa gagaacctct ctttccaat agttcacaca aaagtcttaa  
gcatgattct  
7321 cactaggctg acctaagtca tgtgtcttga gccatcaactc caccagagct  
gtgggattct  
7381 ctgatgggcc aagcctgagt cacatagttt actgtgggtg ctggagaggg  
gcagggacaa  
7441 actgcatgga ttggaaagtgg agaagggcag ttccccaaat gaaaaaatca  
ggagaggctg  
7501 ttacaaaaat aagggaaaat ggccaagtac agtagttcat gcctgtatc  
ccagcaactt  
7561 gggaggctga ggtgagagga ttacttgagc ccaggagttt gagaccagcc  
tgggcaacat  
7621 agtgagactc tgtctctaca aaaagaaaaaa aaagttttt aattagccag  
gtgtggtgg  
7681 gtacaactgc agtccttagtt actcgggagg ctgaggcaga aggactattt  
gaacccagga  
7741 gttcaaggct gcagtgaggt atgatcatgc cactgcactc cagcctgggt  
gatagagcaa  
7801 ggccctgtct ctaaaacaaa aagaaataaa tagagcaaga cactgtctct  
aataaataaa

7861 taaaataaaaaa tttaaaaaatg aatgtttaat tttttaaaaaa taagaggaaa  
tggatactac  
7921 atgagcaaaa aatagccttc atcaataaag aagttgagat tggattcagt  
gagaaagagt  
7981 atgatactat attaatgata tgtgccttga tcgatttagtg atgtctgcct  
tggcccccagg  
8041 aagagaaaata gacttacacg tgggttgcac accctgccc gatatgaatg  
ggttcaactca  
8101 atagtggag acacaaatga gccttaaataa ggagcagggt cagctgggt  
ggggcagggg  
8161 gtgatggat accagggaaa caaaaatggg tatgaagtaa gttgttacca  
ttttaaatgaa  
8221 actgaggaac agagaaaaac acagaaattt ctctgtgtct ctctttctct  
gggcctatct  
8281 ctgtctttct gtcccttattt ctgtctcttg ctgtctgtcc ctctgtgttt  
gtctttctgt  
8341 ctgtttctca ctgtcttcat tgctttctct cacactgtgt gtgtctgact  
ctgcctctct  
8401 gagtctcctt ctctgtgtgt gtctctctcc atcttcact ctctccccac  
acctccctgt  
8461 ccctgccttg ttttagccccca gcaaggaccc acctctctct ctctttcttt  
cccccaactca  
8521 ggggtgactct gggggcccccc tgggtctgtaa cagaacactg tatggcatcg  
tctcctgggg  
8581 agacttccca tgtgggcaac ctgaccggcc tgggtctctac acccgtgtct  
caagatacg  
8641 cctgtggatc cgtgaaacaa tccgaaaata taaaacccag cagaaaaat  
ggttgaagg  
8701 cccacaataa aagttgagaa atgtaccggc ttccatcctg tcaccatgac  
ttcctcataat  
8761 ggtctgctta gcccttctct gctccttattt cccagtgttc catttgaacc  
agtatccat  
8821 gtcctgaaaa atgctcaatc tcagctaaca ttccatgttt cagaaggcatt  
caggcactgc  
8881 caggcttgca gtctcccaga tggcatcc ctgaaacatc tcaacaaccc  
gaatgtccca  
8941 acccagacaa tggcccaggt ctctcaactt catcagtgtg gcttctatga  
gcccagatca  
9001 ccacctgaac gttctgtctg tggcacattc taaaatattt ccatcagccc  
atctcaacaa  
9061 tatatgtcct ataaatggac catcattgac aacatcctct aactcttcaa  
gtattttattc  
9121 aatgccagta tcctagaccc tctatttttt gcactcaaga aggctctaga  
ctccccatgat  
9181 agttcatacct gaaaatattc tctttagcccc acaatctctt gcccgtacaa  
cattctgtgt  
9241 acctctgtga ctcaccacag ctaacattgg atcctcagaa tatttcattc  
tcacactgtt  
9301 atgggtgtct cagaagtccc aacccaaacct acatcccaca ttcttccaaat  
accccaccc  
9361 tgccaaacatt ccctctctga atcaatggca ccctagtctc tagagttata  
gggttcaagta  
9421 taccaaaggg tcttcttgcc tgaactttat tgcctaccaa atattccgtc  
ttgtatcccc  
9481 tccatgaaca tccttggtca gtgtcccttg ctgttacatc tttgtgcac  
accctaaaaat  
9541 gtatgtcaaa tccttgcttt ggacaagttt taaaactcac agtctctgt  
ctttctcatc  
9601 tgtaaaaatgg gttcataatt ttttttaatt gtaacattat tacaagaata  
aatgtcaagc

9661 atttatcaact attattatcc gcatggttcc cataaaatata taccttagaa  
 tgttaataac  
 9721 agcccttcga atttgcagag tgtccaaaaa aagtgttgcac ctgatttatt  
 ttccctcagga  
 9781 gacatttctt cagtgttgcac tatgtgcacag cacttcctg ggtgttgtta  
 aatatagttt  
 9841 atttactcaa caaatatcc tacctatcaa gagccaggca ctgttgcaga  
 gacaagtat  
 9901 aaccaatgag ttaaacagat aaaaacttct gccctttag aacttacatt  
 ctttcaaga  
 9961 agtctccata acaatgaata aagaaatagg ctgtcaggtg gtgctgcag  
 ccatagcaag  
 10021 aaatgaaaca agggccatat gtggtagctc atgcctgtaa taccaacact  
 gggaggccaa

SEQ.ID.NO. 44

KLK-L4 AA

ESSKVLNTNGTSGFLPGGYTCFPHSQPWQAALLVQGRLLCGGVLVHPKWVL  
 TAAHCLKEGLKVYLGKHALGRVEAGEQVREVVHSIPHPEYRRSPTHLNHDH  
 DIMLLELQSPVQLTGYIQTPLSHNNRLTPGTTCRVSGWGTTSQVNYPKTL  
 QCANIQLRSDEECRQVYPGKITDNMLCAGTKEGGKDSCEGDSGGPLVCNRTL  
 YGIVSWGDFPCGQPDRPGVYTRVSRYVLWIRETIRKYETQQQKWLGPQ

SEQ.ID.NO. 45

KLK-L4 AA

MWPLALVIASLTALSGGVSQESSKVLNTNGTSGFLPGGYTCFPHSQPWQAA  
 LLVQGRLLCGGVLVHPKWVLTAHCLKEGLKVYLGKHALGRVEAGEQVRE  
 VVHSIPHPEYRRSPTHLNHDHDIMLLELQSPVQLTGYIQTPLSHNNRLTPGTT  
 CRVSGWGTTSQVNYPKTLQCANIQLRSDEECRQVYYPGKITDNMLCAGTKE  
 GGKDSCEGDSGGPLVCNRTLGYGIVSWGDFPCGQPDRPGVYTRVSRYVLWIRE  
 TIRKYETQQQKWLGPQ

SEQ.ID.NO. 46

Table 15

AACTCTACAATGTGCCACA

SEQ.ID.NO. 47

Table 15

TTATTGTGGGCCCTCAACC

SEQ.ID.NO. 48

Table 15

GGATGGTCCATTATAGGAC

SEQ.ID.NO. 49

Table 15

AGGCTGCCCTACTAGTGCAA

SEQ.ID.NO. 50

Table 15

ATATTGCCTAGGTGGATGTG

SEQ.ID.NO. 51

Table 15

AAGACTTCAAGGAGCCAAGC

SEQ.ID.NO. 52

Table 15

GACCCTTCACCTCCCAAAAT

SEQ.ID.NO. 53

Table 15

CTAGTGATCGCCTCCCTGAC

SEQ.ID.NO. 54

Table 15

GGTGATCTGCGCCCTGGTCCT

SEQ.ID.NO. 55

Table 15

AGGTGTCCGGTGGAGGTGGCA

SEQ.ID.NO. 56

KLK-L5 na

1 attgaggggg gatcccagca ggtcccattt gttcagatc ttctgggcct  
ttctgtttg  
61 catttcttcc tctgcaggac acctgtcaca tgagggtctt cagggaaaa  
ggaattctag  
121 tgtctgtgac tgcttcaaag gagaagtaag gggagaggag agaaaagcag  
gaggagttg  
181 gagagaacct cttgtcctg aggtcttcca atctccttca gctcaaagca  
ctcagcatgc  
241 tgaagttcca gactctggc tatcacgttc tgacatgcaa cacaggcaac  
accccagctc  
301 catccacgtt tctccaaaag cacaggcatg acgtcatatg gtgacaaaaca  
cccttgc  
361 aaggaagccc ataggatacg ctaattctag attcacaat actctagagg  
aactcacaca  
421 atgggatggg ccagtgcggc acacagagta tgaggcctcc caccttgggg  
gaatatctt  
481 ttctttttt tctttttttt ttttttgag acggagtctc actctgtcac  
ccaggctgga  
541 gtgcagtggc tcgatctcg ctcactgcaa cctctgcctc ccaggttcaa  
gtgattctcc  
601 tgccctcagcc tctggagtag ctggaattac aggtgcccac caccacaact  
ggctaatttt  
661 tgtatTTTTtta gtagagacga gggtccacca tggggaccag gcttgc  
aactcctgg  
721 ctcaagtgtat ctgcccaccc tggcctagtg ctgggattac agacgtgagt  
caccacgccc  
781 ggccccaccc tggtaaaatt tctgaaaatc atttggtaaa gtgaggaccc  
ctccagctga  
841 gacactgcca ggaaacagct attgagtctc ttagcacccca cagcattaaa  
acaacccaa  
901 aacatTTTTtag gcctcgTTga gttctggagg caaaatattc ctcatctaca  
aatttattt  
961 atttatTTTTttaataaaaag ttattattat tttttttat agagagacag  
ggtcttgctc  
1021 tgtgacccag actagagtgc agtgggtgtga ccatggttca ctgcagcctc  
cacccctgg  
1081 gctcaagcga tcctccacc tcagcctgcc aagtagctgg gaccacaggt  
atgcccctcc  
1141 cccaggctaa ctttttttta cttttgtgg agatgaggtc tcactatgtt  
gcccattgctg  
1201 gttttttttt tttttttttt ttttttgag acgggagtgc aggctggagt  
gcccaggctg  
1261 gagtcagtg gcacaatcat aactcaactgc agcctcaaac tcctggggtc  
aagtgtatct  
1321 cccacccat cctccacat aacttaggact acaggcctgt gtcaccataa  
tgcctggta  
1381 attttttag tttttgtttg tagaaacagg gtctcaactat gtacccagg  
ctggcctcta  
1441 actccctggcc tcaatccatc ctcccatctc aacccatccaa agtgcttagga  
ttatagccac  
1501 gagccaccat gcccggcccc atacttataat ttactttag tgagaaact  
taaaccctac  
1561 tcggtcagta atttcaagt acacaataca ttgttactaa ctatatacat  
ggtattttta  
1621 atttgcatttga atgctccatc aaatcagcga gcccgcctta tttttgtat  
tcaattttat  
1681 tggatataaa ttccacatca gtaaacctga ttctctttaaa aatctacaca  
gaaaaaaaaaa  
1741 aagagagaga ggttgagttg ggtagttgtt ggtatTTTTtgg tttttgtttc  
tttgcttatt

1801 cagttgaggt ttattgtaaa acttgacacc agaaaaaagga agaagtggcg  
tttttgtct  
1861 gtgagcgtgt gacgtgtgtc cttccagag aaaggacagt catggtgctt  
ttttatccctc  
1921 tctgcccaaa gaaggaaagc tcttaacagc cagcaggagg cttttaggg  
accagcgtta  
1981 tcaacgccag tcgcgtgac caatgatgag tttaagcagt taggtcgtt  
ctaagcgtaa  
2041 atcaaaagct aaggttctgt gattctgaaa atgagacacg gacagagact  
ggagacccag  
2101 agagaaagtg aaggactaaa agacagtcat agggtggag tttgctctcc  
tctgttttgc  
2161 tctgggtttt tttgtttgtt tttgcgtctt gtctgaccgc ttttctttt  
tttcttttcc  
2221 tttctttttt tttttttttt ttttgagatg gagtcttgct ctgccgccca  
ggctggagtg  
2281 cggcggcaca atctcggttc actgcaagct ccgcctccca cggtcaaggg  
attctccctgc  
2341 ctcagcctcc cgagcagctg ggattacagg catgcaccac cacactcagc  
taattttgc  
2401 attttagta gagatgggt ttcaccatat tgaccaggct ggtcttgaac  
tcctggcgctc  
2461 aagtgacttg cccgcctcgg cctcccaaag ttttggattt acaggcgtga  
gccacccgc  
2521 ctggccctga ctgctttct ctttgggttg tttgtcaatc ccccttcctc  
tgagccgaat  
2581 tccctttttt ttctcatttt ctctctctgt cccctctctc ttcctttttt  
tctctccctc  
2641 cattcctcct agatgaagca aaaactcaga taaaccagca cagaggccag  
gtatggtggc  
2701 tcacacctgt aatccggca ctttggaaag ccaaggcagg cagttgctt  
gaggccagga  
2761 gttcaagacc agcctggccc acatggtaa accccgtctc tactaaaaat  
acaaaaaattt  
2821 gccggacatg gtggcacgtg cctgtaatcc caggtactca agaggtggag  
gttgactgta  
2881 gcggagatca cagccctgca ctccagcctg ggtgacagag cgagactcca  
tctcaaaacg  
2941 aaaaacaaaa aacagcacaa agttcccttg tcctgtgact cattctctct  
ctctctttct  
3001 accatttctc cttccctgtg tttttttttt ttctctctgt gggttttatt  
taagcaatag  
3061 aagttcttag caaagaaaaa ctttatggaa tttagattgat ccacttcata  
tgtacatata  
3121 tgaactcagt tcagaaactc tttctcaccc ctgcctgate acctatgg  
aagtctgttc  
3181 cttcaactct tttctctttt ctggactct ttctagcttg ggcttcctgc  
ccctccctgc  
3241 cactctcctg cttcacagc ctctccttcc ccctgcccct cccctgcact  
gcatggggat  
3301 gggccccagg tgtccaaggt ctccccaccc tccttgcata ctggagtcag  
gattagaacc  
3361 cagctcccta gtcacccgtga gtcacccgtc ctggggctgc tgacgggctt  
gcagaggaga  
3421 gagggagtg ggctgggtct tcccacccctg ggccctttcc tccttcccc  
ctccgttttag  
3481 ctgtaaagct caattaagtg tgattagctg agaagagttt ctgcagaatt  
agagcaccc  
3541 ccacccctgt cttcggttc ccctccctt aaccggaaaa ctggatgggc  
caggacaaag

3601 agagttttaaga gctttgtcag tggtctgtct ggagcgacag atggaaggaa  
agggaccgggt  
3661 ttagcaacat gacaggtggc tgaggagcca ggtgcagagt ggttagagttg  
gctggcggag  
3721 tggccagcac atgagaagac aggcaggtag gtggacggag agatagcagc  
gacgaggaca  
3781 ggc当地acag tgacagccac gttagaggatc tggcagacaa agagacaagg  
tgagaaggag  
3841 gtaggcgact gccaatgagg gagtgcacaca caggggagca ggttagagaga  
ggacaaggcag  
3901 gtc当地ccct tggtgacctt caaagagaag cagagagggc agaggtgggg  
ggcacaggga  
3961 aagggtgacc tctgagattc cc当地tttccc ccagactttg gaagtgaccc  
accatggggc  
4021 tc当地atctt tttgctctg tggttcttgc gtgagttctc cc当地ggcagg  
gagagggcag  
4081 gactgcgact ggatcccttc acccccattga ggaggccccca ccaccctccc  
catctcagct  
4141 ct当地cccccga gc当地gggtggt gaggaggaga ggggctttct ctgtgcctcc  
at当地ccctgc  
4201 agctctcagg gtactgctca cctcggtctc cc当地tatttt tggatccctct  
tccctctgt  
4261 cc当地ctctga atctctgtct ctccatttcc ct当地tatgtg taagcatctt  
tccctctggg  
4321 tggatggat gtttcatggt cttttctat cactgggtct ctctctctt  
ctctctctt  
4381 ct当地gtctctc tttctctctc ctctctctg cctggttctc tctctcactc  
tggatggat  
4441 tccatctctg tatctttctc tc当地tctctc gaccatgcc cctgtctgtc  
tccagggtctc  
4501 agccaggcag ccacaccgaa gattttcaat ggcactgagt gtggcgtaa  
ctcacagccg  
4561 tggcagggtgg ggctgtttga gggcaccagc ctgcgctgctg ggggtgtcct  
tattgaccac  
4621 aggtgggtcc tc当地agcggc tcactgcagc ggcaggtaag tcccttctg  
gggtggcgca  
4681 agggaggact atgggaaggc aagcgtggg ggttaggatca caagggagg  
tggatggccac  
4741 tgggaagaag ctgatctgc aacaagagag tctgaggta gaccaggagt  
ggaacttctt  
4801 tagcagtggg cctggggtgg tgctggcag ggtgaggtat gttgggtgga  
gggccccggg  
4861 gggctctgga acctgccttc ctgcctctcc cattcctgca tgtaccctt  
cttctctata  
4921 tgacatctgc cactcaccggc agccatttctc tgaccaggatc tggggccggg  
gcccaggatct  
4981 caccaagct cttttcttt ttctttttt tattttttt agacagggtc  
tc当地ctgtc  
5041 gcccaggctg ctgtgcaatg gc当地gtatcac agctcactgc tgtctctgcc  
tccagggttc  
5101 aagtgattct cctgccccag cctcctgagt agctgggatt acaggcacc  
gccaccatgc  
5161 ccagctaatt tttgtatattt ttgttagagac agggtttgc catgttggcc  
aggctggatct  
5221 cgaactcctg gc当地caaatg acctgcccgt cttggcctcc caaagtgc  
ggattacagg  
5281 tggagccac tgc当地ccggc caacatgacc caaactctt gtgcaacttc  
agaatctatg  
5341 cctggcaccct ctctggccct cagtagactg atgttctgga attttttct  
tttctttct

5401 tttttttttt ttttggagac agagtcttgc tctttctgtc atccaaagctg  
gagtgcaagt  
5461 atgctatctt ggctcaactac agcctcaacc acctgggctc aagtgtatcct  
cacacctcag  
5521 cctcccaagg agctaagact acaggcctgc gccaccacac ctggctaatt  
tttaaatttt  
5581 tttttagatag acagggtttt gctatgttac ccaggctggt ctcaaactcc  
tcagctcaag  
5641 caatcttcct gccttgacct cccaaagtgc tgggattaca ggcatgagcc  
actgtgcctg  
5701 gcctggaact tttttgtga aaggggagat cagatgcaaa gaaacagaga  
ctcagggaga  
5761 gagagggcca gcagcaggat gcagagaggc cattcatcaa cccactcggt  
caatcatgaa  
5821 cccactcgtc cacgcatgag catggagggc acatgtccg tgccaggcgg  
tgggataaag  
5881 gcagtgaaca aggtccactg atgtccctgc cttcatggc ttcaccagcc  
gagagaatca  
5941 gaaagagagg cctggcgccgg tggctcacac ctgtaatccc agcactttgg  
gagggcggagg  
6001 cgggcggatc acttgaggtc aggagtttaa gaccagcctg acacacatgg  
tgaacaccta  
6061 tctctactaa aaatacaaaa attagctggg catggtggca tgcttctgt  
atccacgcta  
6121 ctgggaggc tgaggcaggt gaattgctg aacctggag gtggagggt  
tagtgagcca  
6181 agatggtgcc actgcactcc agcctggcgc acagagcgag actcggctt  
aaaaaaa  
6241 aaaaaaaaaaa aaaggagaga gagagacaca gatcaggga catggtagga  
gaaacaggg  
6301 acacccaaga tggaaagagg gtgatggagg ttgggataaa gagcctgtaa  
gagagactcg  
6361 gagaatgaga gttgcgggtg agaggacaga cagtggggg cagaacagtg  
gggagcggca  
6421 ggagcgcctg agtgtccgtg gaggggtgca aggtggggga ctgcgtgcct  
gccacccgct  
6481 cagccgtcgc caccggcagc aggtactggg tgcgcctggg ggaacacagc  
ctcagccagc  
6541 tcgactggac cgagcagatc cggcacagcg gcttctctgt gaccatccc  
ggctacctgg  
6601 gagcctcgac gagccacgag caccacactc ggctgctgcg gctgcgcctg  
cccgcccg  
6661 taaccacgag cgttcaaccc ctgcccctgc ccaatgactg tgcaaccgct  
ggcaccgact  
6721 gccacgtctc aggctgggc atcaccacacc acccacggag taagggggcc  
agggccagg  
6781 gtcaggggtc aggatgggtt caagtctggg atgcagggcg agaggtcgaa  
tcatgacacc  
6841 tcagaggaag gatgggtaaa gggtcagggt gtggatggg acatcaggat  
catggtttgg  
6901 ggtcagagat tatgggtat tgggtcttg ggagccaaag gggtaaagg  
actgggtatg  
6961 aagtcaggga tcagaggtca gaggtcagag tgtgtcagag gtcacac  
tggagcaaaa  
7021 ggcatatata tatatatatg tatgtatagg atatggcat tgtgggtcat  
gggtctgggg  
7081 ttagaggtca ccgtagaatt aaggtcatgg gatccagagg ttgtacaatc  
tggtaaaaat  
7141 ctgaggatgg aaattggat tctatccaaa atcacatatc tgagattgga  
ggtcatacg

7201 tttgggtgt gggcccgaa gtttgggtc atggaggctg gggcccaata  
aactaggatc  
7261 aggggacact ggcgtggaa gcagttaggt ttggaaagatg cagagcttag  
gttggagggt  
7321 aaggtaaaga cagggacatg gggtcaggag acagaagata tgagatcaag  
ctgggatcat  
7381 aaggtaataa gacagaaggt caaagatcac agtagctggc attgaagagg  
gtcaggtctg  
7441 gattcggtt ctctgacgct ggagagacaa gaaagttctt gagttatgcc  
actcaaagt  
7501 aaatgtcaaa gatcaaagag accgtcaatc atctgggtc atgattcata  
tgaaaattaag  
7561 tcataaaatat gtaacttggaa ggtttcggga ttgttagtaca ggtcggttag  
gggcagggt  
7621 attgacatgg atggccaca tccagggaaag agggacgtgg cctcaaagt  
gggagattn  
7681 gggaccctg cagcacgcat gttctctctc cagaccatt cccggatctg  
ctccagtgcc  
7741 tcaacctctc catcgctctcc catgccaccc gccatgggt gtatcccggg  
agaatcacga  
7801 gcaacatggt gtgtcaggc ggcgtcccgg ggcaggatgc ctgccaggtag  
agccagtgc  
7861 ggcagcgtgc gtggtcacca ggacagggaaag tgaaggggag gggctggaag  
caggaggga  
7921 actgatggag gatgaatcag gaaaaggggaa tgctgcagag agacgggtc  
aaaaaggaag  
7981 ggagaggctg gttacggagg ctcacacctg taatcccagc actttggag  
gccgaggcgg  
8041 gcgatcact tgaggtcagg agttcaagac aagcctggcc aacacgggt  
gactctgaat  
8101 ctactaaaaa taccagaatt agccgggggt ggtggtgcaa gcctgtggcc  
ccagctactt  
8161 ggaaggctga ggcaggagaa tcgcttgcatt cccggaggcg gaggttgcag  
tgagctgaga  
8221 tcacgccact gcactccagc ctgggcgaca gagccagact ctgtctcaaa  
acaaaataat  
8281 taataataat aataataata ataataataa taatggagga gaggcccagg  
ataagggagg  
8341 gagagagaca gggagtaaaa gggaggaccg gggatggag gagggggagg  
ggcaggagga  
8401 gagagggagg aagggAACAG agaaggAAAG atggggcagg gtttacagag  
agagacacga  
8461 aaacagacgg agaggactgg gagcccagac agggAACAG ctgtttctgg  
ggctctaaat  
8521 cttccata ccacccctca gttgggtctg tcccagactg agagagatt  
gaggatggcg  
8581 gtctctcccc tcattggta gggccccagc cattgtctt gagagaactc  
tgtgttttg  
8641 atggagtccct gcccacccctc cctgggattt gtcattttt atggactct  
ctccctcat  
8701 tggtcagaac cccaggcatt gtccttgcata gaacctctat ctttatgg  
gtcccccaccc  
8761 cttccctgg gattggtcat tgataatagt gttctctctc ctcattggtc  
agggccccag  
8821 ccattgtccct tgagagaatg ctcgactctt tatgttgcct tgacagcctc  
ccctgagatt  
8881 ggtcattaaat gactgtgctc tctctccctca ttggtcaggg ccccagccat  
tgtccctgag  
8941 agaacctctg tccttatgg agttccaccc ttctccctg ggattggccc  
ctagagacag

9001 tggttcttct ctttggta gccattgcca ttgtcctccg ggaaagtgtat  
tatactctt  
9061 tgtctaatacg ccagacttgg agccctcccc aaggcccagg actgggttga  
agggttgggg  
9121 agggaaaacag aaataagatg tctcccttgc tcagacagta cttctcttcc  
cttccagggt  
9181 gattctgggg gccccctggt gtgtggggga gtccttcaag gtctgggtgc  
ctgggggtct  
9241 gtggggccct gtggacaaga tggcatccct ggagtctaca cctatatttgc  
caagtatgtg  
9301 gactggatcc ggatgatcat gaggaacaac tgacctgtt cctccaccc  
caccgggg  
9361 ccttaacttg ggtacccctc tggccctcag agcaccaata tctcctccat  
cacttccct  
9421 agtccactc ttgttggcct gggacttct tggaacttta actcctgcca  
gcccctctaa  
9481 gacccacgag cggggtgaga gaagtgtgca atagtctgga ataaatataa  
atgaaggagg  
9541 gccccatgtct gtccatttga agtcctcatg ctgggtgaga ctggaagaag  
gactcagcag  
9601 tttccctatc tcataagggt agaaacagag ctcaaataag gcccaggcaca  
gtggctcaca  
9661 cctgtaatcc catcaacttg ggaagctgag gcaggtggat cacctgaggt  
caggaactcg  
9721 ggaccagcct ggtcaacata gtgaaacccc aactctacta aaaatgcaaa  
aattagccag  
9781 gcatggtggc gcatgcctgt aatcccagct actcaggagg ctgagacagg  
agaatagcat  
9841 gaacccgtga ggcagaggct gcagcgagcc gagattgaac cattacactc  
cagccctgggc  
9901 gacagagcga gactccatct caaaaacaaa caaacaaaaa acccagtgt  
caaataggat  
9961 gagggtcttc cctgagtagt tactcagaaa tggagtagaa aaagttactt  
ttaataat  
10021 aggccgggtg cagtggccca cgcctgtaat cccagcactt tggaggccg  
aggtggggagg  
10081 atggctttag ctcagatttc gagatcagcc tggcaacaca gtgaaatctt  
gtcactacaa  
10141 aaacacaaaa aattagctgg gtgtgggtt gcgtgcctgt agtcccagct  
acttgggaag  
10201 ctgaggtggg aggatcaccc gagccgggg ggtggaggct gcaaagagcc  
gagatcatgc  
10261 cactgcactc cagccctggc aataaagtga gacctgtct caaaaacaaa  
aaccaccaa  
10321 tataataag acacatgtt cttcatctgg cataatagaa atagtgcaca  
gagcttataa  
10381 gctttcaag agtccacaaa agacccgaaa aagaaaaaga aaattgttag  
ctccaaaata  
10441 ccagatgaaa gctgcaaagt caacatttat gaccattta tccaatgtcc  
ataaaaacgt  
10501 gcattcttc cactagccaa ctgcagttt ctttcttgcata atgaagcata  
cattgttatct  
10561 ttaatgtggg acgtggctt gttctaataa gacgaagggt ggagtgcagg  
cttggaaagc  
10621 aggagagctc agcctacgtc ttaatcctc ctgcccaccc cttggattct  
gtctccactg  
10681 ggactcaaga ggtgaggaga gaccatctcc ccaaatgcac tgaaggaaa  
ctggaggagg  
10741 gagggagtga ggggtgatca taccagcgga ggcacatttgc tggcccccc  
ccgcagtctg

10801 ctctttccaa gtggaccctc ctggaagcct gatcccaacc tccccctgcaa  
 gcaggtctgt  
 10861 cacccccatc tctcagatga agaaaactgag ccttcaggg gtggagtccc  
 ttgtccccac  
 10921 gtcataaggg tagtcatagt agtaggaaga ggaagcacct aggtttgagg  
 ccagggctgg  
 10981 ctgctgtcag aacctaggcc ctccccctgcc ttgctccaca cctggtcagg  
 ggagagaggg  
 11041 gaggaaagcc aagggaaaggg acctaactga aaacaaacaa gctgggagaa  
 gcaggaatct  
 11101 gcgctcggtt tccgcagatg cagaggttga ggtggctgcg ggactggaaag  
 tcatcggtca  
 11161 gaggtctcac agcagccagt aagtgaacag ctggactcgg gctgcctggg  
 cggcaggag  
 11221 aagcgggcag gggaaagggtc agcagaggag cgaggccccca gaggagccct  
 ggggtggagc  
 11281 acagccaagg gctctgttcc ctttcctgga ctcggcttcc acaggccctg  
 acctgcctcc  
 11341 cccaccctcc ggtcctgccc ctgtgcctgg cagcagcccc acctgtgtga  
 catcccagca  
 11401 caccccccctt ctccttgcaa aggagaaggg agcggcctag gggaggccag  
 gggcccacct  
 11461 gggctggggc tgtggagagg gagtggctgg gacgggagga aaaagagaga  
 cggagattag  
 11521 atggaagaag agggatttca agacaaattt ccagagatgc agtcagagag  
 actgactgag  
 11581 agacacaaaag atagaaggaa ttagagaaaag ggccacacag agccagacag  
 agagagaaga  
 11641 gtggagatgg agacagggac gaggacagag aaaggcagac agacacatag  
 ggacagaaag  
 11701 agaaaaatca cacaaagtca gaattactga atgacagggaa atgacacata  
 gaacgagaca  
 11761 cagattcaga gactcaggc agggaaagga aggctgcaga cagacagaca  
 gacagaggaa

SEQ.ID.NO. 57

KLK-L5 AA

LSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLIDHRWVLTAHCSG  
 SRYWVRLGEHSLSQLDWTEQIRHSGFSVTHPGYLGASTSHEHDLRLRLRLP  
 VRVTSSVQPLPLPNDATAGTECHVSGWGITNHPRNPFPDLLQCLNLSIVSHA  
 TCHGVYPGRITSNMVCAGGVPGQDACQ

SEQ.ID.NO. 58

KLK-L5 AA – alternatively spliced

MGLSIFLLLCLVGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLID  
 HRWVLTAHCSGRPIP GSAPVPQPLHRLPCHLPWCVSRENHEQHGVCRRPG  
 AGCLPG

SEQ.ID.NO. 59

KLK-L5 AA – alternatively spliced

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLID  
HRWVLTAAHCSGSRYWVRLGEHSLSQLDWTEQIRHSGFSVTHPGYLGASTS  
HEHDLRLLRLRLPVRTSSVQPLPLPNDCATAGTECHVSGWGITNHPRNPFPD  
LLQCLNLSIVSHATCHGVYPGRITSNMVCAGGVPGQDACQGDGGPLVCGG  
VLQGLVSWGSVGPQCGQDGIPGVYTYICNSTLVGLTSWNFNSCQPF

SEQ.ID.NO. 60

KLK-L5-AA

MGLSIFLLLCVLGLSQAATPKIFNGTECGRNSQPWQVGLFEGTSLRCGGVLID  
HRWVLTAAHCSGSRYWVRLGEHSLSQLDWTEQIRHSGFSVTHPGYLGASTS  
HEHDLRLLRLRLPVRTSSVQPLPLPNDCATAGTECHVSGWGITNHPRNPFPD  
LLQCLNLSIVSHATCHGVYPGRITSNMVCAGGVPGQDACQGDGGPLVCGG  
VLQGLVSWGSVGPQCGQDGIPGVYTYICKYVDWIRMIMRNN

SEQ.ID.NO. 61

Table 17

TCAGCCAGGCAGCCACACCG

SEQ.ID.NO. 62

Table 17

TTGGTGATGCCCTCAGCCTGA

SEQ.ID.NO. 63

Table 17

CCACACCGAAGATTTCAAT

SEQ.ID.NO. 64

Table 17

GCCCTCCTTCATTTATA

SEQ.ID.NO. 65

## KLK-L6 NA

1 atcgtgtaat caccgccaca tccagtgc aa agctgattcg tcaccacaga  
gcagctccct  
61 cctgccaccc catccctggg tcccaagaga accctttctt aaaagaggga  
gttcttgacg  
121 ggtgtggtgg ctcatgcctg taatccttgc actttggag gccaaggagg  
gtggatcatt  
181 tgaggtcagg agttttagac cagactggcc aacatggta aaccctgtct  
ttactaaaaa  
241 tacaaaaaaaa tgagcggggc atgggtggg gtgcctata g cccagctac  
tcaggaggct  
301 gaggcaggag aatcgcttga acccaggagg cagagggtgc agtgagccga  
gattgagcca  
361 ctgcactcca gccggggcta aagagtgaga ctctgtctca aaaaaaaaaa  
aaagaaaaag  
421 aaaaaaaagaa aaaaaaataa aataaataaa taaataaaaat aaatttaaaa  
atttaaaaat  
481 aaagaggggg ttcttggtt gatgccgagc ctgaaccaag gcagaggagg  
ccgggaaggc  
541 ttcccaaggc cttcagctca aagcaggag gcccata gttt aaacagaaac  
agttcaggaa  
601 tcacagaaag gcacctggg agagatggg gtgtggctcc agatgcaggt  
gcccagacag  
661 tgcgtccccca ggtgtacaga cagacccagg ccaagctcca gctcaaagag  
ccagcctagg  
721 ggggtgccga ggtggaggga ggctgagtc ggctgaggcc gggaaacagt  
tgggttagcc  
781 aaggaggca agcagcctcc tgagtacca cgtggccag gtacgggct  
gcccaggccc  
841 agagacggac acaagcactg gggat taa gggctaggg gaggggctga  
ggagggtagg  
901 ccctccccca aatgaggatg gaacccccc aactccagaa cccccctgca  
ggctggccag  
961 aatccccc catctcatc actctgtctc tcctgtctc tgccgtctcc  
tat tttgaat  
1021 ttccaacccc gtctgttaag actgtccctc tgcacccatc tctctgtccc  
cttctcttc  
1081 tgggtctctc tccctctccc tctgggtctc tgcacccatc tctgggtctc  
tgtcactctc  
1141 tcttgcatc tccagctctc actttgtctc tgcacccatc agatccaaag  
ctggggatg  
1201 ccagttctgg caccaaccc tctgctccct gctggggcct ctgctcccc  
atctctcagg  
1261 agtcgaaagt gagaagcaa ggtggcagc tctgctccag gtccaggtat  
ctccccc  
1321 cctccctgccc gtcctctatc ccacccctcc tctccatctc tccctggcgc  
tgccatctc  
1381 catctaggcc tccgtctccct tgcattgt cccatcccc tgcacccatc  
catccccc  
1441 gtctccccctc tgccatcggc ctgcctgtcc catcctctt ctcccaccat  
gtccccgttct  
1501 ttccacgtc tcatgcccgc actgccttca tcatcatcgc tgcacccatc  
tgtgtgttt  
1561 tggtgagtgc cgcatggtgg gggcgtctcg gctctctcc tctctctcc  
ctgtttctc  
1621 ttctgtgtg tctgtttcca ttctatctcc accttcttcc ctccgtctt  
tgctttctc  
1681 tctccacttc tccacacccc tctccctg cgtctctgtg tctccctt  
cctctgtctt

1741 gttttttcc caccgtctgc ctcttctgtt ccctgtcaca tccaaacttcc  
accgggtttct  
1801 ccagctctct cctcagttcc ttctctcatg agcacacacgt cctctgtgt  
cgtatccctg  
1861 gactcctctc tctccactgt catatctct cattcatttt cccagtcct  
ctctgtctct  
1921 tgctctcccc ctctctgtca ctctgtctct gtctctctct ttctctctct  
ctctctgtgt  
1981 ctctctgtct ggctctctct ctgtctctct ctccatctct ctctctctct  
cccccccgtc  
2041 accctgtctc tgtctctctc tgtctgtgtg tctctctgtc tttctctctc  
tccatctctc  
2101 tctgtctctc tctctctctc tctctctctc cctctctccc tctctccgtg  
actccctctc  
2161 tcagtccatc tcttctccc tcttcagcc ctttcgtgcc ctttcctctc  
acactccca  
2221 ccctggtttc ctgactccac cactagatcc accacctcca gcaactggga  
accctccccct  
2281 gcccacccctg ccctgggtc ccctccagg attcctctta gattatagca  
tcttcctctgg  
2341 gcggttctc atgaacaatt gtggctgttt ttttggccag acaggggagg  
gaggggatgg  
2401 gatcagggag tcctggaatg ggaacttaggc aataaaaaaa aaaaatgtc  
agaagcaggg  
2461 cggcgggagg tggggcagg gccagctgtc cttaccaggg ataaaaggct  
ttggcagtgt  
2521 gacttaggaag agagacacct cccctcttc cttcatcaag acatcaagga  
gggacctgtg  
2581 ccctgctcca catcctccc cctgcccggc gcagagcctg caggccccgc  
ccccctcgtc  
2641 tctggtccct acctctctgc tgtgtcttca tgcctctgag ggtcttggc  
tctggtaag  
2701 tgccccttgc tgtctctgtc tctcagcccc cggttctgtt gaaggttcct  
tctctctcac  
2761 ttttctctg catttgcacag gacctggccc tcagccctta aaatgttcct  
cctgctgaca  
2821 gcattcaag tcctggctat aggtaaagaga acgggtgggt atgacacaag  
ggggccccc  
2881 ggagactctg agaagagatg gggatgggtc cttggggccc ctggatgctc  
atggtgacct  
2941 cataagaaaag agcagggagt ggttggggg tcattggggg ggaacgtgct  
ggaggcctaa  
3001 attccttagtt gtggaggtgc taggaaattt tggggccggg gagagaggtg  
tttataaggt  
3061 ctggtgcaaa atacataagg aatcttaggg aactattagg tcctgagtgg  
gtcatagcag  
3121 aaagatcacg gggctctacc tgactgtgtt agggaaagaaa caatgtcaga  
aagatgtttt  
3181 gttgtcagag ggaaggtgga gaaggatgtt gggatggcgg gatcgtggca  
tggggggcg  
3241 ggatcgtggc atgggtgtgt gaggtggatg gggcaagtg tggggcaaga  
gatggcggat  
3301 cttgggggtc ccactgagtg ggaacgttgg ggaggagaca gggaggtcct  
tgaatgtgtt  
3361 ggggaaggac tcattgggg gaaatgtggc atatttcgag aagtgtac  
agaaaattatg  
3421 ggagcataga gctaagggtc gttagatgttag caaggccctg gataaggtgg  
ccacggcaca  
3481 aaataagaga tgctacggag gtgacttggg aggtgagtca gaaagctctc  
cgtgctgggg

3541 caataacggg gtcaatattg ggcatgtctc accctgggtg ggacagatag  
aggcggggcag  
3601 tttaggggtt agacaaaag gaaggggatt tgtcagttt gaaatcctac  
aaacctgtgg  
3661 agtggagagt gttgctcat ctacttccc cacccaatcc tgtccactcc  
tagccatgac  
3721 acagagccaa gaggatgaga acaagataat tggtggccat acgtgcaccc  
ggagctccca  
3781 gccgtggcag gcggccctgc tggcgggtcc caggcgccgc ttccctcg  
gaggcgccct  
3841 gcttcaggc cagtgggtca tcactgctgc tcactgcggc cgcccgtaa  
tgaccctcctc  
3901 ccctgtccct gtaccttagt aattccagag tctaaagccc tagagctgag  
ctgagaacct  
3961 ggatctctgt atagaaccca atgttagtggc tggctccctgg tttgaggct  
agagaagagc  
4021 ctggaacaaa aacacagctc gggatgtggg ctcctccata aatctcgaa  
tcagcatagg  
4081 ttctgaaagc agatgggcag cttggaaccc atggacctgc tgagaaccga  
acatctgatc  
4141 cagtgattct tccagaggcc acacattaca tcgagaccaa gcttagccca  
ttccagattg  
4201 gttgctgaat tcaggacccc gtctacattc agaaactcag gacactacgt  
agaactcaga  
4261 gcccagttca ggacctgcag tctagccata aatccagaac tagaacgctg  
ctcacagctg  
4321 gaacatacaa ctctaagaat agaggcaaaa cctggaggct gtttcacacc  
caaggtttag  
4381 ttccagagtct agtctatagc tccgctatga gcagacttca acccagtgtt  
tgaatccca  
4441 aatgtggcgg gtgcggtggc tcatgcctat aatcctagca ctttgggatg  
ctgaggcagg  
4501 cagatcacct gaggtcagga gttcgagacc agcctgagca acatagagaa  
accctgtctc  
4561 tactaaaaat gcaaaattag ccaggcatgg tggcacatgc ctgtaatccc  
agccactcgg  
4621 gaggtgagg caggaaatc acttgaacct gggaggcgg ggttgcagt  
agtcaagatc  
4681 gcaccattgc actccaggct aggcaacaag agcgaaactc catatcaatc  
aatcaatcaa  
4741 taaatcccag aatgcagatc ctaatcagaa gccccatata aaacctagac  
ccctccataa  
4801 ttcttagatct gaacttacaa cccagacccc agccaagagg tcaaaatgcc  
tataaggcat  
4861 atctatgcca taaacaggc agtctagaac ctagagatca aagctcaggc  
cagagtctag  
4921 aatataaagg ccagaatgca aaccagactc tagaatctt gatccgggccc  
ataaccttaga  
4981 gctccaacta gaacccagag cccaaacctga ggtcaaggc tagggccaga  
gtccagaacc  
5041 aagagcccta taatccaata tgaaacagac ctgtagaggc tgggtgcgg  
ggctcacgccc  
5101 tgtaatccca gcactttggg aggctgaggc gggagaatca cttgaactgg  
gagttggagg  
5161 tcgagagtga gctgagatcg tgccactgca ctccagccta ggtgacagag  
cgagactcca  
5221 tcacaaaaaaa aaaataaata aataaatcaa gtcataatcc aggttcgatc  
tagaatctt  
5281 atcttagcat agagtcaaaa gtttaagatg tctagaactc agaaccagg  
ctagaaacag

5341 aatggtgccct actccggaat atcagttccg atttagagcc tagactcata  
acgcagtttc  
5401 gcttaggact caatgcacccg agccccagcac agaccctggc acggagccaa  
gctctcccaa  
5461 tcatcacctt cttcccaagc caggagctgg agcccagccc aagagcggaa  
ggagaggcag  
5521 ctggggctgg gccgagagaa tgccctggcc atggggaaagg gcacaggagg  
ccaagaatgc  
5581 tcggcctgca gttagtgaga agcaggctag acctcggggg agactcgtca  
cccggccagg  
5641 gaaccgggct ggaggggtggg gaggagtctc tggctcagac cctgagcagc  
gcttccttgc  
5701 ggggtcgtgg ccaggatcct tcaggttgcc ctggcaagc acaacctgag  
gagggtggag  
5761 gccacccagc aggtgctgctg cgtggttcgt caggtgacgc accccaacta  
caactccccg  
5821 acccacgaca acgacacctcat gctgctgcag ctacagcagc ccgcacggat  
cgggaggggca  
5881 gtcaggccca ttgaggtcac ccaggcctgt gccagccccg ggacctcctg  
ccgagtgta  
5941 ggctggggaa ctatatccag ccccatcggt gaggactcct gcgtttggaa  
aagcagggga  
6001 ctgggcctgg gtcctgggt ctccaggagg tggagctggg gggactgggg  
ctcctgggtc  
6061 tgagggagga ggggctgggc ctggactcct gggtctgagg gaggaggggg  
ctgaggcctg  
6121 gactcctggg tctcaaggag gaggagctgg gcctggactc atacgtctga  
gggaggaggg  
6181 gctggagcct ggactcctgg gtctcaagga ggaggggctg ggcctggact  
tctgggtctg  
6241 agggaggagg ggctggggac ctggactccc gggtctgagg gaggagggac  
tgggggtctg  
6301 gactcctggg tctgagggag gaggggctgg gggcctggac tcctgggtct  
gaggagggag  
6361 gtgctggggc tggactcctg ggtcggaaagg aggaggggct gggggcctgg  
acccttgggt  
6421 cttatggag ggttagacca gttataaccc tgcagtgtcc cccagccagg  
taccccgct  
6481 ctctgcaatg cgtgaacatc aacatctccc cggatgaggt gtgccagaag  
gcctatccta  
6541 gaaccatcac gcctggcatg gtctgtcag gagttccca gggcgggaag  
gactcttgc  
6601 aggttaaggcc caggatggga gctgtggtag ggattatttg ggactgggat  
ttaagcaaat  
6661 gatgtcagga gcatggaagt ctgcagaggt cttcagaaga gagtgaaccg  
caggcacaga  
6721 gagattccga tagccaggcc accctgcttc ctggccctgt gccccctgg  
taatggactc  
6781 agagcattca tgcctcagtt tcctcatctg tcaggtggaa gtaaccctct  
tagggtagtt  
6841 ggtggaatgg gatgaggcag gttggggaaa gatgcagag tggcctctgc  
tcatatgggt  
6901 ctggaaagg ctgtgtcag gcttctagaa atcttaatgc atccttgagg  
gaggcagaga  
6961 tggggaaata gaaaaagaga gacacacaaa tggctacag ttggagcga  
cagaggggg  
7021 cctgggtgaga ttcaagggac aggcaaggc acacagagac agagccagac  
ccagcggaga  
7081 ggaaaggaag tgcccccacc tccggggctg agacctcaga gctggggcag  
gactgtgtcc

7141 ctaactgtcc accagtgtct ctgcctgtct ccctgtgtct gcttctcgaa  
 ttctctgtgc  
 7201 catggggct ctggctaccc gtcacatcgt gtctccattt ctgttccctcc  
 ccctcagggt  
 7261 gactctgggg gacccctgggt gtgcagagga cagctccagg gcctcgtgtc  
 ttggggaaatg  
 7321 gagcgctgctg ccctgcctgg ctacccgggt gtctacacca acctgtgaa  
 gtacagaagc  
 7381 tggattgagg aaacgatgctg ggacaaatga tggtcttcac ggtgggatgg  
 acctcgatcag  
 7441 ctgcccaggc cctcctctct ctactcagga cccaggagtc caggccccag  
 cccctccctcc  
 7501 ctcagaccca ggagtccagg ccccccagccc ctccctccctc agacccggaa  
 gtccaggccc  
 7561 ccagccccctc ctccctcaga cccaggagtc caggccccag cccctccctcc  
 ctcagacccc  
 7621 ggagtccagg ccccccagccc ctccctccctc agacccagga gtccaggccc  
 cagtcctcc  
 7681 tccctcagac ccaggagtc aggccccag cccctccctcc ctcagaccca  
 ggaatccagg  
 7741 cccagccccct ctcctcag acccaggagc cccagtc ccccccctcc  
 tccttgagac  
 7801 ccaggagtc aggcccagcc ctcctccctc cagacccagg agccccagtc  
 cccagcatcc  
 7861 tgatctttac tccggctctg atctctccctt tcccagagca gttgcttcag  
 gcgttttctc  
 7921 cccaccaagc cccaccctt gctgtgtcac catcaactact caagacccgaa  
 ggcacagagg  
 7981 gcaggagcac agacccctta aaccggcatt gtattccaaa gacgacaatt  
 tttaacacgc  
 8041 ttagtgtctc taaaaaccga ataaataatg acaataaaaaa tggaatcatc  
 ctaaattgtta  
 8101 ttcatctatc catgtgttta ctttttattt tttgagacaa ggtcttgctc  
 agtctcttgg  
 8161 taaaatgctg taacgcaatc atagctact gcaaccgtga ctcctggc  
 tccagtgtac  
 8221 ctctaccctc agccctccgaa gtagctggaa ccacagggtc ccgtcaccat gccccgtac

SEQ.ID.NO. 66

KLK-L6 AA

MTQSQEDENKIIGGHTCTRSSQPWQAALLAGPRRRFLCGGALLSGQWVITAA  
 HCGRPILQVALGKHNLRRWEATQQVLRVVRQVTHPNYNNSRTHDNDLMLLQL  
 QQPARIGRAVRPIEVTPQACASPGTSCRVSGWGTISPIARYPASLQCVNINISPD  
 EVCQKAYPRTITPGMVCAGVPQGGKDSCQGDSGGPLVCRGQLQGLVSWGM  
 ERCALPGYPGVYTNLCKYRSWIEETMRDK

SEQ.ID.NO. 67

KLK-L6 AA

MFLLLTALQVLAIAMTQSQEDENKIIGGHTCTRSSQPWQAALLA  
 GPRRRFLCGGALLSGQWVITAAHCGRPILQVALGKHNLRRWEATQQVLRVV  
 RQVTHPNYNNSRTHDNDLMLLQLQQPARIGRAVRPIEVTPQACASPGTSCRVSG  
 WGTISPIARYPASLQCVNINISPD EVCQKAYPRTITPGMVCAGVPQGGKDSC

QGDSGGPLVCRGQLQGLVSGMERCALPGYPGVYTNLCKYRSWIEETMRD  
K

SEQ.ID.NO. 68

Figure 9

prostase

MATAGNPWGFLGYLILGVAGSLVSGSCSQINGEDCSPHSQPWQAALVME  
NELFCGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPEGSQMVEASLSV  
RHPEYNRPLLANDLMLIKLDEVS ESDTIRSIASQCPTAGNSCLVSGWGLLA  
NGRMPTVLQCVNVSVVSEEVCSKLYDPLYHPSMFCAGGGHDQKDSCNGDSG  
GPLICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTIEWIEK

SEQ.ID.NO. 69

Figure 9

EMSP

MATAGNPWGFLGYLILGVAGSLVSGEMSPSCSQINGEDCSPHSQPWQAAL  
VMENELFCGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPEGSQMVEAS  
LSVRHPEYNRPLLANDLMLIKLDEVS ESDTIRSIASQCPTAGNSCLVSGWG  
LLANGRMPTVLQCVNVSVVSEEVCSKLYDPLYHPSMFCAGGGHDQKDSCNG  
DSGGPLICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTIEWIEK 249

SEQ.ID.NO. 70

Figure 9

KLK-L2

MATARPPWMWVLCALITALLGVTEHVLANNDVSCDHPSNTVPSGSNQDLG  
AGAGEDARSDDSSSRIINGSDCDMHTQPWQAALLRPNQLYCGAVLVHPQW  
LLTAAHCRKKVFRVRLGHYSLSPVYESGQQMFQGVKSIPHGYSHPGHSNDL  
MLIKLNRRIRPTKDVRPINVSSHCP SAGTKCLVSGWGTKSPQVHFPKVLQCL  
NISVLSQKRCEDA YPRQIDDTMFCAGDKAGR DSCQGDGGPVVCNGSLQGL  
VSWGDYPCARPNRPGVYTNLCKFTKWIQE

SEQ.ID.NO. 71

Figure 9

zyme

MKKLMVVLSLIAAAWAEEQNKLVHGGPCDKTSHPYQAALYTSGHLLCGGV

LIHPLWVLAAHCKPNLQVFLGKHNLRQRESSQEQQSSVVRAVIHPDYDAAS  
HDQDIMLLRLARPAKLSELIQPLPLERDCSANTTSCHILGWGKTADGDFPDTI  
QCA YIHLVSREECEHA YPGQITQNMLCAGDEKYGKDSCQGDGGPLVCGDH  
LRGLVSWGNIPCGSKEKPGVYTNVCRTYTNWIQK

SEQ.ID.NO. 72

Figure 9

neuropsin

MGRPRPRAAKTWMFLLLGGAWAGHSRAQEDKVLGGHECQPHSQPWQAA  
LFQQQQQLLCGGVLVGGNWVLTAAHCKPKYTURLGDHSLQNKDGPEQEIPV  
VQSIPHPYCNSSDVEDHNHDLMQLLRDQASLGSKVKPISLADHCTQPGQKC  
TVSGWGTVTSPRENFPDTLNCAEVKIFPQKKCEDAYPGQITDGMVCAGSSKG  
ADTCQGDGGPLVCDGALQGITSWGSDPCGRSDKPGVYTNICRYLDWIKKTL  
SPMRILQLILLALATGLVG

SEQ.ID.NO. 73

Figure 9

TLSP

GETRIKGFECKPHSQPWQAALFEKTRLLCGATLIAPRWLLTAHCLKPRYIV  
HLGQHNLQKEEGCEQTRTATESFPHPGFNNSLPNKDHRNDIMLVKMASPVSI  
TWA VRPLTLSSRCVTAGTSCLISGWGSTSSPQLRLPHTLRCANITIIEHQKCEN  
AYPGNITDTMVCASVQEGGKDSCQGDGGPLVCNQLQGIISWGQDPCAISTR  
KPGVYTKVCKYVDWIQE

SEQ.ID.NO. 74

Figure 9

PSA

MWVPVVFLTSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCG  
GVLVHPQWVLTAAHCIRNKSVILLGRHSLFHPEDTGQVFQVSHSFPHPLYDM  
SLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPAALGTTCYAS  
GWGSIEPEEEFLTPKKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGK  
STCSGDSGGPLVCNGVLQGITSWGSEPCALPERPSLYTKVVHYRKWIKD

SEQ.ID.NO. 75

Figure 9

## KLK2

MWDLVLSIALSVGCTGA VPLIQSRIVGGWECEKHSQPWQVA VYSHGWAHCG  
GVLVHPQWVLTAAHCLKKNSQVWLGRHNLFEPEDTGQRVPVSHSPHPLYN  
MSLLKHQSLRPDEDSSHDLMLRLSEPAKITDVVKVLGLPTQEPA  
LGTTCYAS  
GWGSIEPEEFLRPRSLQCVSLHLLSNDMCARAYSEK VTEFMLCAGLWTGGKD  
TCGGDSGGPLVCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKD

SEQ.ID.NO. 76

Figure 9

## KLK1

MWFLVLCLALSLGGTGAAPPIQSRIVGGWECEQHSQPWQAAL YHFSTFQCGG  
ILVHRQWVLTAAHCISDNYQLWLGRHNLFDDENTAQFVHVSESFPHPGFNMS  
LLENHTRQADEDYSHDLMLLRLTEPADTITDAVKVVELPTEEVGSTCLASG  
WGSIEPENFSFPDDLQCVDLKILPNDECKKAHVQKVTDFMLCVGHLEGGKDT  
CVGDSGGPLMCDGVLQGVTSWGYVPCGTPNPKPSAVRVLSYVKWIED

SEQ.ID.NO. 77

Figure 9

trypsinogen

MNPLLILTFVAAALAAPFDDDDKIVGGYNCEENSVPYQVSLNSGYHFCGGSLI  
NEQWVVSAGHCYKSRIQVRLGEHNLIEVLEGNEQFINAAKIRHPQYDRKTLNN  
DIMLIKLSSRAVINARVSTISLPTAPPATGTKCLISGWGNTASSGADYPDELQC  
LDAPVLSQAKCEASYPGKITSNMFCVGFLEGGKDSCQGDGGPVVCNGQLQ  
GVVSWG-DGCAQKNKPGVYTKVYNYVKWIKN

SEQ.ID.NO. 78

Figure 17, 27, 36, 43

## PSA

MWVPVVFLTSVTWIGAAMPLSRIVGGWECEKHSQPWQVLVASRGRAVCG  
GVLVHPQWVLTAAHCIRNKSILLGRHSLFHPEDTGQVFQVSHSPHPLYDM  
SLLKNRFLRPGDDSSHDLMLRLSEPAELTDAVKVMDLPTQEPA  
LGTTCYAS  
GWGSIEPEEFLTPKKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTGGK  
STCSGGDSGGPLVCNGVLQGITSWGSEPCALPERPSLYTKVVHYRKWIKD  
NP

SEQ.ID.NO. 79

Figure 17, 27, 36, 43

## KLK2

MWDLVLSIALSVGCTGAVPLIQSRIVGGWECEKHSQPWQAVYSHGWAHCG  
 GVLVHPQWVLTAAHCLKKNSQVWLGRHNLFEPEDTGQRVPVSHSFPHPLYN  
 MSLLKHQSLRPDEDSSHDLMLRLSEPAKITDVVKVLGLPTQEALGTTCYAS  
 GWGSIEPEEFLRPRSLQCVSLHLLSNDMCARA YSEKVTEFMLCAGLWTGGKD  
 TCGGDSGGPLVCNGVLQGITSWGPEPCALPEKPAVYTKVVHYRKWIKDTIAA  
 NP

SEQ.ID.NO. 80

Figure 17, 27, 36, 43

## KLK1

MWFLVLCLALSLGGTGAAPPIQSRIVGGWECEQHSQPWQAALYHFSTFQCGG  
 ILVHRQWVLTAAHCISDNQLWLGRHNLFDDENTAQFVHVSESFPHPGFNMS  
 LLENHTRQADEDYSHDLMLLRLTEPADTITDAVKVVELPTEEPEVGSTCLASG  
 WGSIEPENFSFPDDLQCVDLKILPNDECKKAHVQKVTDFMLCVGHLEGGKDT  
 CVGDSGGPLMCDGVLQGVTSWGYVPCGTPNPKPSAVRVLSYVKWIEDTIAE  
 NS

SEQ.ID.NO. 81

Figure 17, 27, 36, 43

prostase

MATAGNPWGWFGLYLILGVAGSLVSGSCSQIINGEDCSPHSQPWQAALVME  
 NELFCSGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPGSQMVEASLSV  
 RHPEYNRPLLANDLMLIKLDESVS-  
 ESDTIRSIASQCPTAGNSCLVSGWGLLANG—  
 RMPTVLQCVNVSVVSEEVCSKLYDPLYHPSMFCAGGGHDQKDSCNGDGGP  
 LICNGYLQGLVSFGKAPCGQVGVPGVYTNLCKFTEWIEKTVQAS

SEQ.ID.NO. 82

Figure 17, 27

trypsinogen

MNPLLILTFVAAALAAPPFDDDDKIVGGYNCEENSVPYQVSLNSGYHFCGGSLI  
 NEQWVVSAGHCYKSRIQVRLGEHNIEVLEGNEQFINAAKIIIRHPQYDRKTLNN  
 DIMLIKLSRAVINARVSTISLPTAPPATGTKCLISGWGNTASSGADYPDELQC  
 LDAPVLSQAKCEASYPGKITSNMFCVGFLLEGGKDSCQGDSGGPVVCNGQLQ  
 GVVSWG-DGCAQKNKPGVYTKVYNYVKWIKNTIAANS

SEQ.ID.NO. 83

Figure 17, 27, 36, 43

neuropsin

MGRPRPRAAKTWMFLLLGGAWAGHSRAQEDKVLGGHECQPHSQPWQAA  
LFQQQQLLCGGVLVGGNWVLTAAHCKKPKYTVRLGDHSLQNKDGPEQEIPV  
VQSIPHPCYNSSDVEDHNHDMLLQLRDQASLGSKVKPISLADHCTQPGQKC  
TVSGWGTVTSPRENFPTLNCAEVKIFPKKCEDAYPGQITDGMVCAGSSKG  
ADTCQGDSGGPLVCDGALQGITSWGSQDPCGRSDKPGVYTNICRYLDWIKKIIG  
SKG

SEQ.ID.NO. 84

Figure 17, 27, 36, 43

zyme

MKKLMVVSLIAAAWAEEQNKLVHGGPCDKTSHPYQAALYTSGHLLCGGV  
LIHPLWVLTAAHCKKPNLQVFLGKHNLRQRESSQEQQSVVRAVIHPDYDAAS  
HDQDIMLLRLARPAKLSELIQPLPLERDCSANTTSCHILGWGKTADGDFPDTI  
QCA YIHL VSREECEHA YPGQITQNMLCAGDEKYGKDSCQGDSGGPLVCGDH  
LRGLVSWGNIPCGSKEKPGVYTNVCRYTNWIQKTIQAK

SEQ.ID.NO. 85

Figure 27

EMSP

MATAGNPWGWFGLYLILGVAGSLVSGEMSPSCSQIINGEDCSPHSQPWQAA  
VMENELFCSGVLVHPQWVLSAAHCFQNSYTIGLGLHSLEADQEPGSQMVEAS  
LSVRHPEYNRPLLANDLMLIKLDESVESDTIRSIASQCPTAGNSCLVSGWG  
LLANGRMPTVLQCVNVSVVSEEVCSKYDPLYHPSMFCAGGGHDQKDSCNG  
DSGGPLICNGYLQGLVSFGKAPCGQGVPGVYTNLCKFTEWIEKTVQAS

SEQ.ID.NO. 86

Figure 27

TLSP

MRI-LQLILLALATGLVGGETRIIKGFECKPHSQPWQAALEKTRLLC  
GATLIAPRWLTA AHCLKPRYTIVHLGQHNLQKEEGCEQTRTATESFPHPGFNN  
SLPNKDHRNDIMLVKMASPVSITWAVRPLTLSSRCVTAGTSCLISGWGSTSSP  
QLRLPHTLRCANITIEHQKCENA YPGNITDTMVCASVQEGGKDSCQGDSGGP  
LVCNQSLQGIISWGQDPCAITRKPGVYTKVCKYVDWIQETMKNN

SEQ.ID.NO. 87

Figure 27

HSCEE

MARSLLLPLQILLLS LALETAGEEEAQGDKIIDGAPCARGSHPWQVALLSGNQL  
HCHSCCEGGVLVNERWLTAHCKMNEYTVHLGSDTLGDRRAQRKASKSF  
RHPGYSTQTHVNDLMLVKLNSQARLSSMVKKVRLPSRCEPPGTTCTVSGWG  
TTTSPDVTFPDLMCVDVKLISPQDCTKVYKDLENSMLCAGIPDSKKNACNG  
DSGGPLVCRGTLQGLVS WGTGPCGQPNDPGVYTQVCKFTKWINDTMKKHR

SEQ.ID.NO. 88

Figure 27

NES1

MRAPHLHLSAASGARALAKLLPLLMAQLWAAEAALLPQNDTRLDPEAYGAP  
CARG SQPWQVSLFNGLSFH CAGVLVDQSWVLTAAHCGNKPWARVGDDH  
LL-LLQG-EQLRRTT RSVVHPKYHQGSGPI LPRRTDEHDML LKLARPVV-  
PGPRVR ALQLPYR-CAQPGDQ CQVAGWGTAAARRVK YNKGLTCSSITLSP  
KECEVFYPGVVTNNM ICAGLDR-GQDPCQS DSGGPLVCDETLQGI LSWG-  
VYPCGSAQHPAVYTQICKYMSWINK VIRSN